MADE IN ITALY

TUDERTECHNICA

excellence in design and manufacture of specialty hoses

www.tudertechnica.com

1984-2014 30th anniversary

www.tudertechnica.com

TUDERTECHNICA designs and manufactures speciality technical hoses for a wide range of applications in the food, chemical and for other industries requiring high performance hoses.
TUDERTECHNICA operates in a modern and efficient manufacturing plant employing the rigid mandrel production process.
TUDERTECHNICA's core capabilities encompass ingenuity and innovation, customized design capability and flexible production capability. All of these capabilities are focused to provide solutions for Customers.
TUDERTECHNICA has strong global brand recognition and a reputation for high quality products.
TUDERTECHNICA hoses are sold by an experienced global sales team and its products are valued by customers on every continent.
TUDERTECHNICA has achieved and maintains all the essential ISO certifications.
TUDERTECHNICA's goal is to provide solution for customers through innovative hose design and rapid customer response.
TUDERTECHNICA manufactures hoses according to European Reglement 2023/2006/EC (GMP) about good manufacturing practice for materials and articles intended to come into contact with food.

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TUFOOD/NATURAL

Suction and delivery hose suitable for milk, milk by-products, wine and non fatty food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006. RAL REGISTRATION G-72

Reinforcement synthetic plies, galvanized wire helices

Cover smooth, red, abrasion, ageing and ozone resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA TUFOOD/NATURAL

TUDERTECHNICA TUFOOD/NATURAL

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +80°C (-40°F / +176°F)

Vacuum 675 mmHg (26,6 inHg)

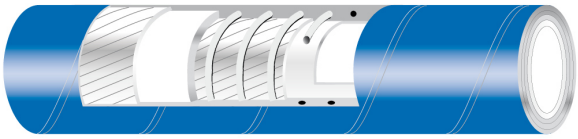
Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	31	1,22	10	150	30	450	0,66	0,44	60	2,36
25	1,00	37	1,46	10	150	30	450	0,81	0,54	85	3,35
32	1,25	44	1,73	10	150	30	450	1,00	0,67	115	4,53
38	1,50	51	2,00	10	150	30	450	1,28	0,86	150	5,91
51	2,00	64	2,52	10	150	30	450	1,66	1,11	210	8,27
63,5	2,50	78,5	3,09	10	150	30	450	2,52	1,69	265	10,43
76	3,00	91	3,58	10	150	30	450	2,97	1,99	320	12,60
102	4,00	118	4,65	10	150	30	450	4,16	2,79	430	16,93

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA · BfR · DM 21/03/1973 · MHLW 1959-2006 · CE 1935/2004 · PHTHALATES REACH FREE · FÜR LEBENSMITTEL RAL G72

TUFOOD/FAT



Suction and delivery hose suitable for fatty and non fatty food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube NBR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-73

Reinforcement synthetic plies, galvanized wire helices

Cover smooth, blue, abrasion, ageing, ozone and oil resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA TUFOOD/FAT

TECHNICAL CHARACTERISTICS

Temperature range -25°C / +80°C (-13°F / +176°F)

Vacuum 675 mmHg (26,6 inHg)

Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	31	1,22	10	150	30	450	0,74	0,50	60	2,36
25	1,00	37	1,46	10	150	30	450	0,91	0,61	85	3,35
32	1,25	44	1,73	10	150	30	450	1,12	0,75	115	4,53
38	1,50	51	2,00	10	150	30	450	1,40	0,94	150	5,91
51	2,00	64	2,52	10	150	30	450	1,80	1,21	210	8,27
63,5	2,50	78,5	3,09	10	150	30	450	2,70	1,81	265	10,43
76	3,00	91	3,58	10	150	30	450	3,17	2,12	320	12,60
102	4,00	118	4,65	10	150	30	450	4,42	2,96	430	16,93

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

TUFOOD/EPDM

Suction and delivery hose suitable for a wide range of food products. Not recommended for fatty food products and oil. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube EPDM, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-74

Reinforcement synthetic plies, galvanized wire helices

Cover smooth, red, abrasion, ageing and ozone resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA TUFOOD/EPDM

TUDERTECHNICA TUFOOD/EPDM

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +120°C (-40°F / +248°F)

Vacuum 675 mmHg (26,6 inHg)

Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	31	1,22	10	150	30	450	0,70	0,47	60	2,36
25	1,00	37	1,46	10	150	30	450	0,85	0,57	85	3,35
32	1,25	44	1,73	10	150	30	450	1,04	0,70	115	4,53
38	1,50	51	2,00	10	150	30	450	1,31	0,88	150	5,91
51	2,00	64	2,52	10	150	30	450	1,69	1,13	210	8,27
63,5	2,50	78,5	3,09	10	150	30	450	2,55	1,71	265	10,43
76	3,00	91	3,58	10	150	30	450	2,99	2,00	320	12,60
102	4,00	118	4,65	10	150	30	450	4,18	2,80	430	16,93

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA BfR DM 21/03/1973 MHLW 1959-2006 CE 1935/2004 3A PHTHALATES REACH FREE RAL G74 LEBENSMITTEL FÜR LEBENSMITTEL

TUPRESTIGE

Premium grade low permeation suction and delivery hose suitable for a wide range of products. Recommended for wine and spirits. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube IIR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II

Reinforcement synthetic plies, galvanized wire helices

Cover smooth, red, abrasion, ageing and ozone resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA TUPRESTIGE

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +120°C (-40°F / +248°F)

Vacuum 675 mmHg (26,6 inHg)

Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	31	1,22	10	150	30	450	0,71	0,48	60	2,36
25	1,00	37	1,46	10	150	30	450	0,87	0,58	85	3,35
32	1,25	44	1,73	10	150	30	450	1,06	0,71	115	4,53
38	1,50	51	2,00	10	150	30	450	1,34	0,90	150	5,91
51	2,00	64	2,52	10	150	30	450	1,72	1,15	210	8,27
63,5	2,50	78,5	3,09	10	150	30	450	2,59	1,74	265	10,43
76	3,00	91	3,58	10	150	30	450	3,04	2,04	320	12,60
102	4,00	118	4,65	10	150	30	450	4,25	2,85	430	16,93

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA · DM 21/03/1973 · MHLW 1959-2006 · CE 1935/2004 · 3A · PHTHALATES REACH FREE

TUACQUA/KTW

Delivery hose suitable for potable water. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube UPE, translucent, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, KTW AND W270, EUROPEAN REGLEMENT 1935/2004/CE, AND 10/2011/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006

Reinforcement synthetic plies

Cover smooth, blue, abrasion, ageing and ozone resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA TUACQUA/KTW

TUDERTECHNICA TUACQUA/KTW

TECHNICAL CHARACTERISTICS

Temperature range -35°C / +55°C (-31°F / +131°F)

Norm ISO 1307 for dimensional tolerances
KTW class A

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
10	0,39	17,5	0,69	-	-	20	300	60	900	0,21	0,14	50	1,97
13	0,50	21,5	0,85	-	-	20	300	60	900	0,30	0,20	65	2,56
16	0,63	26	1,02	-	-	20	300	60	900	0,43	0,29	80	3,15
19	0,75	29	1,14	-	-	20	300	60	900	0,49	0,33	95	3,74
25	1,00	35	1,38	-	-	20	300	60	900	0,62	0,42	140	5,51
32	1,25	45	1,77	-	-	20	300	60	900	1,06	0,71	190	7,48
38	1,50	52	2,05	-	-	20	300	60	900	1,35	0,90	230	9,06
40	1,57	54	2,13	-	-	20	300	60	900	1,39	0,93	245	9,65
50	1,97	66	2,60			20	300	60	900	1,94	1,30	310	12,20

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA · BfR · DM 21/03/1973 · MHLW 1959-2006 · CE 1935/2004 · CE 10/2011 · KTW CLASS A · W270 · PHTHALATES REACH FREE

TUBLUESTREAM

Delivery hose suitable for a wide range of non fatty food products, recommended for cleaning plant and equipment with hot water mixed with steam. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube EPDM, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-74

Reinforcement synthetic plies

Cover smooth, blue, abrasion, ageing, ozone and oil resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA TUBLUESTREAM

TUDERTECHNICA TUBLUESTREAM

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +164°C (-40°F / +327°F) The operating temperature of the hose is directly dependent upon the specific fluid been conveyed, the length of time the fluid is in contact with the hose and the working pressure

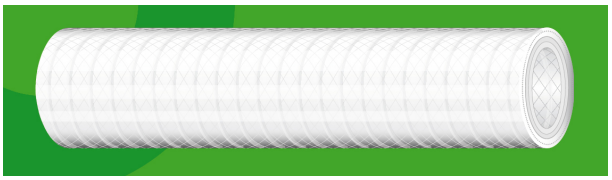
Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working Pressure (164°C)		Working Pressure (95°C)		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
10	0,39	20	0,79	6	90	20	300	60	900	0,29	0,19	-	-
13	0,50	23	0,91	6	90	20	300	60	900	0,35	0,23	-	-
16	0,63	26	1,02	6	90	20	300	60	900	0,41	0,27	-	-
19	0,75	31	1,22	6	90	20	300	60	900	0,60	0,40	-	-
25	1,00	39,5	1,56	6	90	20	300	60	900	0,93	0,62	-	-
32	1,25	46,5	1,83	6	90	20	300	60	900	1,16	0,78	-	-
38	1,50	54	2,13	6	90	20	300	60	900	1,47	0,98	-	-
51	2,00	68	2,68	6	90	20	300	60	900	2,03	1,36	-	-

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA BfR DM 21/03/1973 MHLW 1959-2006 CE 1935/2004 3A PHTHALATES REACH FREE FÜR LEBENSMITTEL RAL G74

TUSIL BRIGHT



Suction and delivery hose suitable for cosmetic, pharmaceutical and food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Meets migration test according to BfR Recommendation XV & XXI Cat. 2. Not intended for use as an implant material. Not suitable for blood or human fluids.

DESCRIPTION

Tube silicone, translucent, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA CFR 21 PART 177.2600, USP XXXII class VI requirements, European Pharmacopoeia 3.1.9 Ed. VII 2011, ISO 10993 Sections 5,10,11:2009, BfR Recommendation XV & XXI Cat. 2, European Reglement 1935/2004/CE, DM 21/03/1973 e seguenti, Japan Ministry of Health and Welfare Notice No.370,1959, No.201,2006 and revision 2012, 3A Sanitary Standard Class II

Reinforcement high temperature resistant plies, stainless steel wire helix

Cover smooth, silicone, translucent, heat, ageing, ozone and abrasion resistant, glossy cover

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA TUSIL BRIGHT

TUDERTECHNICA TUSIL BRIGHT

TECHNICAL CHARACTERISTICS

Temperature range -60°C / +200°C (-76°F / +392°F)

Vacuum 675 mmHg (26,6 inHg)

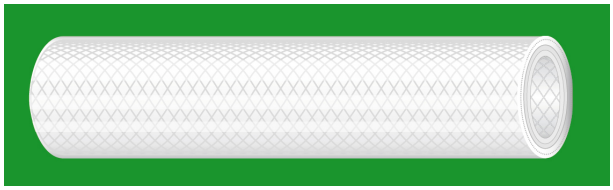
Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	24	0,94	15	225	45	675	0,46	0,31	60	2,36
16	0,63	27	1,06	14	210	42	630	0,53	0,36	70	2,76
19	0,75	30	1,18	13	195	39	585	0,60	0,40	80	3,15
25	1,00	36	1,42	10	150	30	450	0,73	0,49	100	3,94
32	1,25	43	1,69	8	120	24	360	0,89	0,60	130	5,12
38	1,50	51	2,00	7	105	21	315	1,21	0,81	155	6,10
51	2,00	64	2,52	6	90	18	270	1,56	1,05	210	8,27
63,5	2,50	78,5	3,09	5	75	15	225	2,32	1,55	260	10,24
76	3,00	91	3,58	4	60	12	180	2,72	1,82	310	12,20
102	4,00	117	4,61	3	45	9	135	3,55	2,38	420	16,54

Data refer to ambient temperature (20°C); we recommend a reduction of 20% working pressure for every 100°C of temperature increase. Other diameters, wall thickness and pressure only on specific request.

FDA · BfR · DM 21/03/1973 · MHLW 1959-2006 · CE 1935/2004 · 3A · PHTHALATES REACH FREE · USP CLASS VI · ISO 10993 · EU PHARMA 3.1.9

TUSIL BRIGHT/D



Delivery hose suitable for cosmetic, pharmaceutical and food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Meets migration test according to BfR Recommendation XV & XXI Cat. 2. Not intended for use as an implant material. Not suitable for blood or human fluids.

DESCRIPTION

Tube silicone, translucent, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA CFR 21 PART 177.2600, USP XXXII class VI requirements, European Pharmacopoeia 3.1.9 Ed. VII 2011, ISO 10993 Sections 5,10,11:2009, BfR Recommendation XV & XXI Cat. 2, European Reglement 1935/2004/CE, DM 21/03/1973 e seguenti, Japan Ministry of Health and Welfare Notice No.370,1959, No.201,2006 and revision 2012, 3A Sanitary Standard Class II

Reinforcement high temperature resistant plies

Cover smooth, silicone, translucent, heat, ageing, ozone and abrasion resistant, glossy cover

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA TUSIL BRIGHT

TECHNICAL CHARACTERISTICS

Temperature range -60°C / +200°C (-76°F / +392°F)

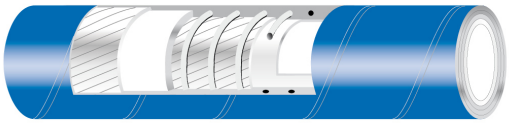
Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
10	0,39	22	0,87	-	-	16	250	48	750	0,35	0,23	-	-
13	0,50	25	1,00	-	-	15	225	45	675	0,41	0,27	-	-
16	0,63	28	1,10	-	-	14	210	42	630	0,48	0,32	-	-
19	0,75	31	1,22	-	-	13	195	39	585	0,55	0,37	-	-
25	1,00	37	1,46	-	-	10	150	30	450	0,68	0,46	-	-
32	1,25	44	1,73	-	-	8	120	24	360	0,83	0,56	-	-
38	1,50	50	1,97	-	-	7	105	21	315	0,96	0,64	-	-
51	2,00	63	2,48	-	-	6	90	18	270	1,24	0,83	-	-
63,5	2,50	76,5	3,01	-	-	5	75	15	225	1,68	1,13	-	-
76	3,00	89	3,50	-	-	4	60	12	180	1,98	1,33	-	-
102	4,00	115	4,53	-	-	3	45	9	135	2,61	1,75	-	-

Data refer to ambient temperature (20°C); we recommend a reduction of 20% working pressure for every 100°C of temperature increase. Other diameters, wall thickness and pressure only on specific request.

FDA · BfR · DM 21/03/1973 · MHLW 1959-2006 · CE 1935/2004 · 3A · PHTHALATES REACH FREE · USP CLASS VI · ISO 10993 · EU PHARMA 3.1.9

TUFOOD/FAT
CRUSH RESISTANT



Suction and delivery hose suitable for fatty and non fatty food products. Crush resistant. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube	NBR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-73
Reinforcement	synthetic plies, thermoplastic wire helices
Cover	smooth, blue, abrasion, ageing, ozone and oil resistant, cloth finish
Sterilization	refer to guidelines for cleaning and sanitizing on Tudertechnica website
Marking	TUDERTECHNICA TUFOOD/FAT CRUSH RESISTANT

TUDERTECHNICA TUFOOD/FAT CRUSH RESISTANT

TECHNICAL CHARACTERISTICS

Temperature range	-25°C / +80°C (-13°F / +176°F)
Norm	ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	54	2,13	525	20,67	10	150	30	450	1,58	1,06	170	6,69
51	2,00	67	2,64	525	20,67	10	150	30	450	2,00	1,34	240	9,44
63,5	2,50	81,5	3,21	525	20,67	10	150	30	450	2,70	1,81	310	12,20
76	3,00	94	3,70	525	20,67	10	150	30	450	3,15	2,11	380	14,96

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA BfR DM 21/03/1973 MHLW 1959-2006 CE 1935/2004 3A PHTHALATES FREE REACH FREE FÜR LEBENSMITTEL RAL G73

TUFOOD/NATURAL
CRUSH RESISTANT

Suction and delivery hose suitable for milk, milk by-products, wine and non fatty food products. Crush resistant. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006. RAL REGISTRATION G-72

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +80°C (-40°F / +176°F)

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	54	2,13	525	20,67	10	150	30	450	1,46	0,98	170	6,69
51	2,00	67	2,64	525	20,67	10	150	30	450	1,85	1,24	240	9,44
63,5	2,50	81,5	3,21	525	20,67	10	150	30	450	2,50	1,68	310	12,20
76	3,00	94	3,70	525	20,67	10	150	30	450	2,92	1,96	380	14,96

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

TUFOOD/EPDM
CRUSH RESISTANT

Suction and delivery hose suitable for a wide range of food products. Not recommended for fatty food products and oil. Crush resistant. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube EPDM, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-74

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +120°C (-40°F / +248°F)

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	54	2,13	525	20,67	10	150	30	450	1,38	0,92	170	6,69
51	2,00	67	2,64	525	20,67	10	150	30	450	1,74	1,17	240	9,44
63,5	2,50	81,5	3,21	525	20,67	10	150	30	450	2,36	1,58	310	12,20
76	3,00	94	3,70	525	20,67	10	150	30	450	2,76	1,85	380	14,96

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

TUPRESTIGE
CRUSH RESISTANT

Premium grade low permeation suction and delivery hose suitable for a wide range of products. Recommended for wine and spirits. Crush resistant. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube IIR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II

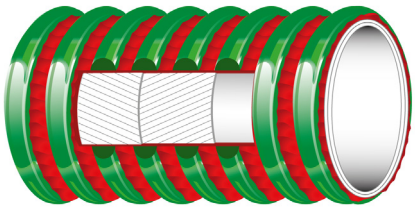
TECHNICAL CHARACTERISTICS

Temperature range -40°C / +120°C (-40°F / +248°F)

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	54	2,13	525	20,67	10	150	30	450	1,45	0,97	170	6,69
51	2,00	67	2,64	525	20,67	10	150	30	450	1,84	1,23	240	9,44
63,5	2,50	81,5	3,21	525	20,67	10	150	30	450	2,48	1,66	310	12,20
76	3,00	94	3,70	525	20,67	10	150	30	450	2,90	1,94	380	14,96

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

SPIRALTECH® NR



Light and flexible lorry collecting hose suitable for milk, milk by-products, wine and non fatty food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006. RAL REGISTRATION G-72

Reinforcement synthetic plies

Cover corrugated, red, abrasion, ageing, ozone and oil resistant, outer thermoplastic helix

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

TECHNICAL CHARACTERISTICS

Temperature range -25°C / +80°C (-13°F / +176°F)

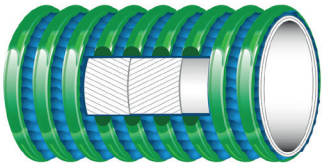
Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	-	-	675	26,6	10	150	30	450	1,21	0,81	80	3,15
51	2,00	-	-	675	26,6	10	150	30	450	1,59	1,07	100	3,94
63,5	2,50	-	-	600	23,6	10	150	30	450	1,93	1,29	130	5,12
76	3,00	-	-	600	23,6	10	150	30	450	2,49	1,67	150	5,91
102	4,00	-	-	525	20,7	10	150	30	450	3,26	2,18	200	7,87

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA BfR DM 21/03/1973 MHLW 1959-2006 CE 1935/2004 PHTHALATES REACH FREE LEBENSMITTEL-FUR RAL G72

SPIRALTECH® NITRILE



Light and flexible lorry collecting hose suitable for fatty and not fatty food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube

NBR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-73

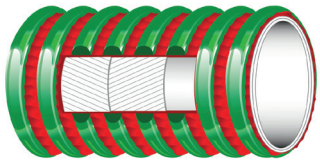
TECHNICAL CHARACTERISTICS

Temperature range -25°C / +80°C (-13°F / +176°F)

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	-	-	675	26,6	10	150	30	450	1,21	0,81	80	3,15
51	2,00	-	-	675	26,6	10	150	30	450	1,62	1,09	100	3,94
63,5	2,50	-	-	600	23,6	10	150	30	450	1,96	1,31	130	5,12
76	3,00	-	-	600	23,6	10	150	30	450	2,37	1,59	150	5,91
102	4,00	-	-	525	20,7	10	150	30	450	3,06	2,05	200	7,87

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

SPIRALTECH® EPDM



Light and flexible lorry collecting hose suitable for a wide range of food products. Not recommended for fatty food products and oil. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube

EPDM, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-74

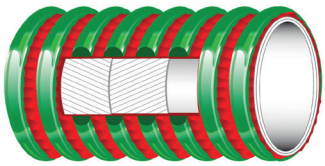
TECHNICAL CHARACTERISTICS

Temperature range -25°C / +80°C (-13°F / +176°F)

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	-	-	675	26,6	10	150	30	450	1,27	0,86	80	3,15
51	2,00	-	-	675	26,6	10	150	30	450	1,67	1,12	100	3,94
63,5	2,50	-	-	600	23,6	10	150	30	450	2,03	1,36	130	5,12
76	3,00	-	-	600	23,6	10	150	30	450	2,38	1,59	150	5,91
102	4,00	-	-	525	20,7	10	150	30	450	3,11	2,09	200	7,87

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

SPIRALTECH® BUTYL



Premium grade low permeation light and flexible lorry collecting hose suitable for a wide range of food products. Recommended for wine and spirits. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube

IIR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II

TECHNICAL CHARACTERISTICS

Temperature range -25°C / +80°C (-13°F / +176°F)

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	-	-	675	26,6	10	150	30	450	1,23	0,82	80	3,15
51	2,00	-	-	675	26,6	10	150	30	450	1,62	1,09	100	3,94
63,5	2,50	-	-	600	23,6	10	150	30	450	1,97	1,32	130	5,12
76	3,00	-	-	600	23,6	10	150	30	450	2,57	1,72	150	5,91
102	4,00	-	-	525	20,7	10	150	30	450	3,37	2,26	200	7,87

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

GLIDETECH® BUTYL

Premium grade low permeation extra flexible suction and delivery hose suitable for wine and spirits. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube IIR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II

Reinforcement synthetic plies, galvanized wire helices

Cover wide corrugated, red, low friction material, non marking when dragged on the floor, abrasion, ozone, ageing, oil and chemical resistant, easy to clean, glossy cover

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA GLIDETECH® BUTYL

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +120°C (-40°F / +248°F)

Vacuum 675 mmHg (26,6 inHg)

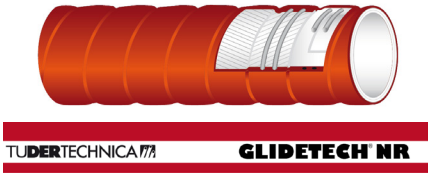
Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	-	-	10	150	30	450	0,82	0,55	70	2,76
38	1,50	-	-	10	150	30	450	1,23	0,82	80	3,15
51	2,00	-	-	10	150	30	450	1,90	1,27	100	3,94
63,5	2,50	-	-	10	150	30	450	2,30	1,54	130	5,12
76	3,00	-	-	10	150	30	450	2,90	1,94	150	5,91
102	4,00	-	-	10	150	30	450	3,78	2,53	250	9,84

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA · DM 21/03/1973 · MHLW 1959-2006 · CE 1935/2004 · 3A · PHTHALATES REACH FREE

GLIDETECH® NR



Extra flexible suction and delivery hose suitable for milk, milk by-products, wine and non fatty food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube

NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006. RAL REGISTRATION G-72

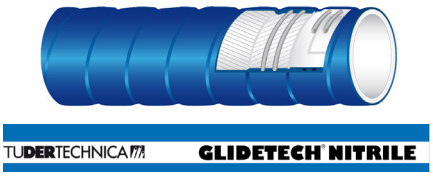
TECHNICAL CHARACTERISTICS

Temperature range -40°C / +80°C (-40°F / +176°F)

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	-	-	10	150	30	450	0,82	0,55	70	2,76
38	1,50	-	-	10	150	30	450	1,23	0,82	80	3,15
51	2,00	-	-	10	150	30	450	1,90	1,27	100	3,94
63,5	2,50	-	-	10	150	30	450	2,30	1,54	130	5,12
76	3,00	-	-	10	150	30	450	2,90	1,94	150	5,91
102	4,00	-	-	10	150	30	450	3,78	2,53	250	9,84

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

GLIDETECH® NITRILE



Extra flexible suction and delivery hose suitable for fatty and non fatty food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube

NBR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-73

TECHNICAL CHARACTERISTICS

Temperature range -25°C / +80°C (-13°F / +176°F)

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	-	-	10	150	30	450	0,81	0,54	70	2,76
38	1,50	-	-	10	150	30	450	1,23	0,82	80	3,15
51	2,00	-	-	10	150	30	450	1,90	1,27	100	3,94
63,5	2,50	-	-	10	150	30	450	2,31	1,55	130	5,12
76	3,00	-	-	10	150	30	450	2,91	1,95	150	5,91
102	4,00	-	-	10	150	30	450	3,80	2,55	250	9,84

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

GLIDETECH® EPDM

Extra flexible suction and delivery hose suitable for a wide range of food products. Not recommended for fatty food products and oil. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube

EPDM, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-74

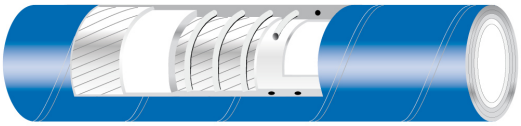
TECHNICAL CHARACTERISTICS

Temperature range -40°C / +120°C (-40°F / +248°F)

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	-	-	10	150	30	450	0,79	0,53	70	2,76
38	1,50	-	-	10	150	30	450	1,19	0,80	80	3,15
51	2,00	-	-	10	150	30	450	1,85	1,24	100	3,94
63,5	2,50	-	-	10	150	30	450	2,24	1,50	130	5,12
76	3,00	-	-	10	150	30	450	2,83	1,90	150	5,91
102	4,00	-	-	10	150	30	450	3,72	2,49	250	9,84

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

MILKFLEX™



Light and flexible lorry collecting hose suitable for milk and milk by-products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube	NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006. RAL REGISTRATION G-72
Reinforcement	synthetic plies, galvanized wire helices
Cover	smooth, blue, abrasion, ageing and ozone resistant, cloth finish
Sterilization	refer to guidelines for cleaning and sanitizing on Tudertechnica website
Marking	TUDERTECHNICA MILKFLEX™

TUDERTECHNICA MILKFLEX™

TECHNICAL CHARACTERISTICS

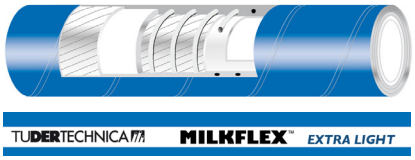
Temperature range	-40°C / +80°C (-40°C / +176°F)
Vacuum	675 mmHg (26,6 inHg)
Norm	ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	36	1,42	6	90	18	270	0,72	0,48	75	2,95
32	1,25	43	1,69	6	90	18	270	0,88	0,59	95	3,74
38	1,50	50	1,97	6	90	18	270	1,20	0,80	115	4,53
51	2,00	63	2,48	6	90	18	270	1,54	1,03	150	5,91
63,5	2,50	75,5	2,97	6	90	18	270	1,98	1,33	190	7,48
76	3,00	90	3,54	6	90	18	270	2,76	1,85	230	9,06
102	4,00	116	4,57	6	90	18	270	3,78	2,53	300	11,81

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA · BfR · DM 21/03/1973 · MHLW 1959-2006 · CE 1935/2004 · PHTHALATES REACH FREE · LEBENSMITTEL-FÜR LEBENSMITTEL RAL G72

MILKFLEX™ EXTRA LIGHT



Very light and flexible lorry collecting hose suitable for milk and milk by-products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006. RAL REGISTRATION G-72

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +80°C (-40°C / +176°F)

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	49	1,93	6	90	18	270	1,07	0,72	115	4,53
51	2,00	62	2,44	6	90	18	270	1,37	0,92	150	5,91
63,5	2,50	74,5	2,93	6	90	18	270	1,74	1,17	190	7,48
76	3,00	88	3,46	6	90	18	270	2,44	1,63	230	9,06

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

MILKFLEX™ *PLUS*

Light and flexible lorry collecting hose suitable for milk and milk by-products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006. RAL REGISTRATION G-72

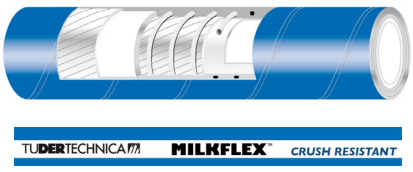
TECHNICAL CHARACTERISTICS

Temperature range -40°C / +80°C (-40°F / +176°F)

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	37	1,46	10	150	30	450	0,81	0,54	75	2,95
32	1,25	44	1,73	10	150	30	450	0,99	0,66	95	3,74
38	1,50	50	1,97	10	150	30	450	1,27	0,85	115	4,53
51	2,00	63	2,48	10	150	30	450	1,64	1,10	150	5,91
63,5	2,50	75,5	2,97	10	150	30	450	2,07	1,39	190	7,48
76	3,00	90	3,54	10	150	30	450	2,76	1,85	230	9,06
102	4,00	117	4,61	9	135	27	405	4,07	2,73	300	11,81

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

MILKFLEX™ CRUSH RESISTANT



Light and flexible lorry collecting hose suitable for milk and milk by-products. Crush resistant. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006. RAL REGISTRATION G-72.

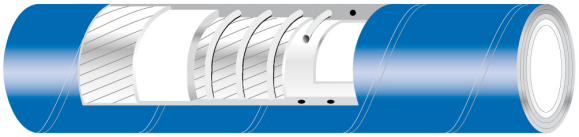
TECHNICAL CHARACTERISTICS

Temperature range -40°C / +80°C (-40°F / +176°F)

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	52	2,05	525	20,67	6	90	18	270	1,15	0,77	130	5,12
51	2,00	65	2,56	525	20,67	6	90	18	270	1,45	0,97	185	7,28
63,5	2,50	77,5	3,05	525	20,67	6	90	18	270	1,80	1,21	240	9,45
76	3,00	92	3,62	525	20,67	6	90	18	270	2,40	1,61	300	11,81

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

MILKFLEX™ FAT



Light and flexible lorry collecting hose suitable for fatty and not fatty food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube NBR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-73

Reinforcement synthetic plies, galvanized wire helices

Cover smooth, blue, abrasion, ageing, ozone and oil resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA MILKFLEX™ FAT

TUDERTECHNICA MILKFLEX FAT

TECHNICAL CHARACTERISTICS

Temperature range -25°C / +80°C (-13°F / +176°F)

Vacuum 675 mmHg (26,6 inHg)

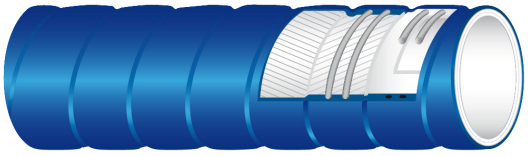
Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	36	1,42	6	90	18	270	0,86	0,58	75	2,95
32	1,25	43	1,69	6	90	18	270	1,06	0,71	95	3,74
38	1,50	50	1,97	6	90	18	270	1,32	0,88	115	4,53
51	2,00	63	2,48	6	90	18	270	1,71	1,15	150	5,91
63,5	2,50	75,5	2,97	6	90	18	270	2,16	1,45	190	7,48
76	3,00	90	3,54	6	90	18	270	3,14	2,10	230	9,06
102	4,00	116	4,57	6	90	18	270	4,21	2,82	300	11,81

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA BfR DM 21/03/1973 MHLW 1959-2006 CE 1935/2004 3A PHTHALATES REACH FREE RAL G73

GLIDETECH® DAIRY



Extra flexible suction and delivery hose suitable for milk and milk by-products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006. RAL REGISTRATION G-72.

Reinforcement synthetic plies, galvanized wire helices

Cover wide corrugated, blue, low friction material, non marking when dragged on the floor, abrasion, ageing, ozone, oil and chemical resistant, easy to clean, glossy cover

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA GLIDETECH® DAIRY

TUDERTECHNICA GLIDETECH® DAIRY

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +80°C (-40°F / +176°F)

Vacuum 675 mmHg (26,6 inHg)

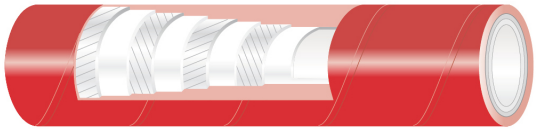
Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	-	-	10	150	30	450	0,82	0,55	70	2,76
38	1,50	-	-	10	150	30	450	1,23	0,82	80	3,15
51	2,00	-	-	10	150	30	450	1,90	1,27	100	3,94
63,5	2,50	-	-	10	150	30	450	2,30	1,54	130	5,12
76	3,00	-	-	10	150	30	450	2,90	1,94	150	5,91
102	4,00	-	-	10	150	30	450	3,78	2,53	250	9,84

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA BfR DM 21/03/1973 MHLW 1959-2006 CE 1935/2004 PHTHALATES REACH FREE FÜR LEBENSMITTEL RAL G72

BREWERY/EPDM D



Delivery hose suitable for beer and a wide range of non fatty food products with an improved resistance to higher pressure. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube EPDM, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-74

Reinforcement synthetic plies

Cover smooth, red, abrasion, ageing and ozone resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA BREWERY/EPDM

TUDERTECHNICA BREWERY/EPDM

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +120°C (-40°F / +248°F)

Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	37	1,46	450	17,7	16	250	48	750	0,75	0,50	150	5,91
32	1,25	48	1,89	375	14,8	16	250	48	750	1,24	0,83	210	8,27
38	1,50	56	2,20	375	14,8	16	250	48	750	1,79	1,20	260	10,24
50	1,97	70	2,76	300	11,8	16	250	48	750	2,48	1,66	350	13.78
51	2,00	70	2,76	300	11,8	16	250	48	750	2,35	1,57	350	13,78
63,5	2,50	89	3,50	300	11,8	16	250	48	750	3,88	2,60	470	18,50
65	2,56	89	3,50	300	11,8	16	250	48	750	3,75	2,51	470	18,50
75	2,95	99	3,90	225	8,9	16	250	48	750	4,29	2,87	580	22,83
76	3,00	99	3,90	225	8,9	16	250	48	750	4,10	2,75	580	22,83
100	3,94	130	5,12	150	5,9	16	250	48	750	7,06	4,73	800	31,50
102	4,00	130	5,12	150	5,9	16	250	48	750	6,57	4,40	800	31,50

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA · BfR · DM 21/03/1973 · MHLW 1959-2006 · CE 1935/2004 · 3A · PHTHALATES REACH FREE · RAL G74 FÜR LEBENSMITTEL

BREWERY/EPDM

Suction and delivery hose suitable for beer and a wide range of non fatty food products with an improved resistance to higher pressure. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube EPDM, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-74

Reinforcement synthetic plies, galvanized wire helices

Cover smooth, red, abrasion, ageing and ozone resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA BREWERY/EPDM

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +120°C (-40°F / +248°F)

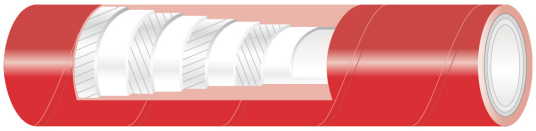
Vacuum 675 mmHg (26,6 inHg)

Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	53	2,09	16	250	48	750	1,48	0,99	155	6,10
50	1,97	66	2,60	16	250	48	750	2,05	1,37	215	8,46
51	2,00	66	2,60	16	250	48	750	1,92	1,29	215	8,46
63,5	2,50	81	3,19	16	250	48	750	2,98	2,00	275	10,83
65	2,56	81	3,19	16	250	48	750	2,84	1,90	275	10,83
75	2,95	94	3,70	16	250	48	750	4,06	2,72	330	12,99
76	3,00	94	3,70	16	250	48	750	3,87	2,59	330	12,99
100	3,94	120	4,72	16	250	48	750	5,38	3,60	450	17,72
102	4,00	120	4,72	16	250	48	750	5,19	3,48	450	17,72

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

BREWERY/BUTYL D



Premium grade low permeation delivery hose suitable for beer and a wide range of non fatty food products with an improved resistance to higher pressure. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube IIR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II

Reinforcement synthetic plies

Cover smooth, red, abrasion, ageing and ozone resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA BREWERY/BUTYL

TUDERTECHNICA BREWERY/BUTYL

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +120°C (-40°F / +248°F)

Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	37	1,46	450	17,7	16	250	48	750	0,76	0,51	150	5,91
32	1,25	48	1,89	375	14,8	16	250	48	750	1,27	0,85	210	8,27
38	1,50	56	2,20	375	14,8	16	250	48	750	1,83	1,23	260	10,24
50	1,97	70	2,76	300	11,8	16	250	48	750	2,53	1,70	350	13,78
51	2,00	70	2,76	300	11,8	16	250	48	750	2,41	1,61	350	13,78
63,5	2,50	89	3,50	300	11,8	16	250	48	750	3,95	2,65	470	18,50
65	2,56	89	3,50	300	11,8	16	250	48	750	3,82	2,56	470	18,50
75	2,95	99	3,90	225	8,9	16	250	48	750	4,37	2,93	580	22,83
76	3,00	99	3,90	225	8,9	16	250	48	750	4,18	2,80	580	22,83
100	3,94	130	5,12	150	5,9	16	250	48	750	7,17	4,80	800	31,50
102	4,00	130	5,12	150	5,9	16	250	48	750	6,68	4,48	800	31,50

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA · DM 21/03/1973 · MHLW 1959-2006 · CE 1935/2004 · 3A · PHTHALATES FREE REACH

BREWERY/BUTYL

Premium grade low permeation suction and delivery hose suitable for beer and a wide range of non fatty food products with an improved resistance to higher pressure. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube IIR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II

Reinforcement synthetic plies, galvanized wire helices

Cover smooth, red, abrasion, ageing and ozone resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA BREWERY/BUTYL

TUDERTECHNICA BREWERY/BUTYL

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +120°C (-40°F / +248°F)

Vacuum 675 mmHg (26,6 inHg)

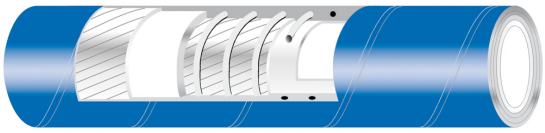
Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	53	2,09	16	250	48	750	1,51	1,01	155	6,10
50	1,97	66	2,60	16	250	48	750	2,09	1,40	215	8,46
51	2,00	66	2,60	16	250	48	750	1,96	1,31	215	8,46
63,5	2,50	81	3,19	16	250	48	750	3,02	2,02	275	10,83
65	2,56	81	3,19	16	250	48	750	2,88	1,93	275	10,83
75	2,95	94	3,70	16	250	48	750	4,11	2,75	330	12,99
76	3,00	94	3,70	16	250	48	750	3,92	2,63	330	12,99
100	3,94	120	4,72	16	250	48	750	5,45	3,65	450	17,72
102	4,00	120	4,72	16	250	48	750	5,26	3,52	450	17,72

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA · DM 21/03/1973 · MHLW 1959-2006 · CE 1935/2004 · 3A · PHTHALATES REACH FREE

BREWERY/UPE



Suction and delivery hose suitable for beer, alcohol concentration up to 96% and a wide range of food products with an improved resistance to higher pressure. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube UPE, translucent, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006

Reinforcement synthetic plies, galvanized wire helices

Cover smooth, blue, abrasion, ageing and ozone resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA BREWERY/UPE

TUDERTECHNICA BREWERY/UPE

TECHNICAL CHARACTERISTICS

Temperature range -35°C / +100°C (-31°F / +212°F)

Vacuum 675 mmHg (26,6 inHg)

Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	51	2,00	16	250	48	750	1,34	0,90	240	9,45
50	1,97	64	2,52	16	250	48	750	1,84	1,23	330	12,99
51	2,00	64	2,52	16	250	48	750	1,72	1,15	330	12,99
63,5	2,50	81	3,19	16	250	48	750	3,06	2,05	415	16,34
65	2,56	81	3,19	16	250	48	750	2,92	1,96	415	16,34
75	2,95	93	3,66	16	250	48	750	3,70	2,48	500	19,69
76	3,00	93	3,66	16	250	48	750	3,50	2,35	500	19,69
100	3,94	119	4,69	16	250	48	750	5,12	3,43	675	26,57
102	4,00	119	4,69	16	250	48	750	4,78	3,20	675	26,57

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA BfR DM 21/03/1973 MHLW 1959-2006 CE 1935/2004 CE 10/2011 PHTHALATES REACH FREE

GLIDETECH® BREWERY HD

Premium grade low permeation extra flexible suction and delivery hose suitable for beer and a wide range of non fatty food products with an improved resistance to higher pressure. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube IIR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II

Reinforcement synthetic plies, galvanized wire helices

Cover wide corrugated, red, low friction material, non marking when dragged on the floor, abrasion, ozone, ageing, oil and chemical resistant, easy to clean, glossy cover

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA GLIDETECH® BREWERY HD

TUDERTECHNICA GLIDETECH BREWERY HD

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +120°C (-40°F / +248°F)

Vacuum 675 mmHg (26,6 inHg)

Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	-	-	16	250	60	900	0,91	0,61	105	4,13
38	1,50	-	-	16	250	60	900	1,38	0,92	120	4,72
51	2,00	-	-	16	250	60	900	2,21	1,48	150	5,91
63,5	2,50	-	-	16	250	60	900	2,79	1,87	195	7,68
76	3,00	-	-	16	250	60	900	3,51	2,35	225	8,86
102	4,00	-	-	16	250	60	900	4,57	3,06	375	14,76

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA · DM 21/03/1973 · MHLW 1959-2006 · CE 1935/2004 · 3A · PHTHALATES REACH FREE

GLIDETECH® VINEYARD

Extra flexible suction and delivery hose suitable for wine and vinification by-products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006. RAL REGISTRATION G-72

Reinforcement synthetic plies, galvanized wire helices

Cover wide corrugated, red, low friction material, non marking when dragged on the floor, abrasion, ageing, ozone, oil and chemical resistant, easy to clean, glossy cover

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA GLIDETECH® VINEYARD

TUDERTECHNICA GLIDETECH® VINEYARD

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +80°C (-40°F / +176°F)

Vacuum 675 mmHg (26,6 inHg)

Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	-	-	10	150	30	450	0,82	0,55	70	2,76
38	1,50	-	-	10	150	30	450	1,23	0,82	80	3,15
51	2,00	-	-	10	150	30	450	1,90	1,27	100	3,94
63,5	2,50	-	-	10	150	30	450	2,30	1,54	130	5,12
76	3,00	-	-	10	150	30	450	2,90	1,94	150	5,91
102	4,00	-	-	10	150	30	450	3,78	2,53	250	9,84

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA · BfR · DM 21/03/1973 · MHLW 1959-2006 · CE 1935/2004 · PHTHALATES REACH FREE · FÜR LEBENSMITTEL RAL G72

GLIDETECH® VINEYARD HD

Extra flexible suction and delivery hose suitable for wine and vinification by-products with an improved resistance to higher pressure. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006. RAL REGISTRATION G-72

Reinforcement synthetic plies, galvanized wire helices

Cover wide corrugated, red, low friction material, non marking when dragged on the floor, abrasion, ageing, ozone, oil and chemical resistant, easy to clean, glossy cover

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA GLIDETECH® VINEYARD HD

TUDERTECHNICA GLIDETECH® VINEYARD HD

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +80°C (-40°F / +176°F)

Vacuum 675 mmHg (26,6 inHg)

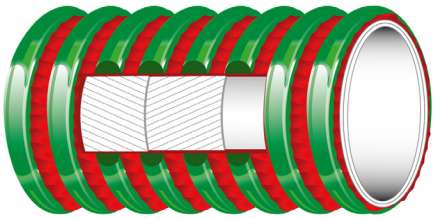
Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	-	-	16	250	60	900	0,91	0,61	105	4,13
38	1,50	-	-	16	250	60	900	1,41	0,94	120	4,72
51	2,00	-	-	16	250	60	900	2,24	1,50	150	5,91
63,5	2,50	-	-	16	250	60	900	2,82	1,89	195	7,68
76	3,00	-	-	16	250	60	900	3,55	2,38	225	8,86
102	4,00	-	-	16	250	60	900	4,44	2,97	375	14,76

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA · BfR · DM 21/03/1973 · MHLW 1959-2006 · CE 1935/2004 · PHTHALATES REACH FREE · RAL G72 FÜR LEBENSMITTEL

SPIRALTECH® VINEYARD



Light and flexible lorry collecting hose suitable for wine and vinification by-products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006. RAL REGISTRATION G-72

Reinforcement synthetic plies

Cover corrugated, red, abrasion, ageing, ozone and oil resistant, outer thermoplastic helix

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

TECHNICAL CHARACTERISTICS

Temperature range -25°C / +80°C (-13°F / +176°F)

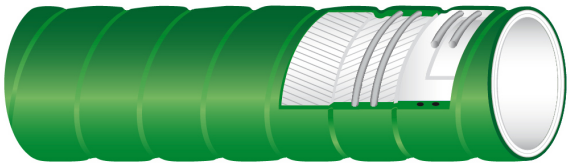
Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	-	-	675	26,6	10	150	30	450	1,21	0,81	80	3,15
51	2,00	-	-	675	26,6	10	150	30	450	1,59	1,07	100	3,94
63,5	2,50	-	-	600	23,6	10	150	30	450	1,93	1,29	130	5,12
76	3,00	-	-	600	23,6	10	150	30	450	2,49	1,67	150	5,91
102	4,00	-	-	525	20,7	10	150	30	450	3,26	2,18	200	7,87

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA BfR DM 21/03/1973 MHLW 1959-2006 CE 1935/2004 PHTHALATES REACH FREE FÜR LEBENSMITTEL RAL G72

GLIDETECH® DISTILLERY



Extra flexible suction and delivery hose suitable for distilled and distillation by-products with alcohol concentration up to 96%. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube UPE, translucent, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006

Reinforcement synthetic plies, galvanized wire helices

Cover wide corrugated, green, low friction material, non marking when dragged on the floor, abrasion, ageing, ozone, oil and chemical resistant, easy to clean, glossy cover

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA GLIDETECH® DISTILLERY

TUDERTECHNICA GLIDETECH® DISTILLERY

TECHNICAL CHARACTERISTICS

Temperature range -35°C / +100°C (-31°F / +212°F)

Vacuum 675 mmHg (26,6 inHg)

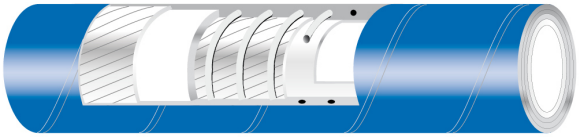
Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	-	-	10	150	30	450	0,80	0,54	100	3,94
38	1,50	-	-	10	150	30	450	1,14	0,76	150	5,91
51	2,00	-	-	10	150	30	450	1,81	1,21	200	7,87
63,5	2,50	-	-	10	150	30	450	2,19	1,47	260	10,24
76	3,00	-	-	10	150	30	450	2,81	1,88	350	13,78
102	4,00	-	-	10	150	30	450	3,67	2,46	500	19,69

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA BfR DM 21/03/1973 MHLW 1959-2006 CE 1935/2004 CE 10/2011 PHTHALATES REACH FREE

TUALCOMASTER



Light and flexible suction and delivery hose suitable for alcohol concentration up to 96%. Can be used for fatty and non fatty food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube UPE, translucent, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006

Reinforcement synthetic plies, galvanized wire helices

Cover smooth, blue, abrasion, ageing and ozone resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA TUALCOMASTER

TUDERTECHNICA TUALCOMASTER

TECHNICAL CHARACTERISTICS

Temperature range -35°C / +100°C (-31°F / +212°F)

Vacuum 675 mmHg (26,6 inHg)

Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	29	1,14	6	90	18	270	0,61	0,41	60	2,36
25	1,00	35	1,38	6	90	18	270	0,76	0,51	85	3,35
32	1,25	43	1,69	6	90	18	270	0,98	0,66	115	4,53
38	1,50	49	1,93	6	90	18	270	1,14	0,76	150	5,91
51	2,00	62	2,44	6	90	18	270	1,52	1,02	210	8,27
63,5	2,50	76,5	3,01	6	90	18	270	2,29	1,53	265	10,43
76	3,00	89	3,50	6	90	18	270	2,85	1,91	320	12,60
102	4,00	115	4,53	6	90	18	270	3,74	2,51	430	16,93

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA · BfR · DM 21/03/1973 · MHLW 1959-2006 · CE 1935/2004 · CE 10/2011 · PHTHALATES REACH FREE

DRYFOOD ANTISTATIC D

Delivery hose suitable for powdery and granular dry food products.

DESCRIPTION

Tube NBR, white, antistatic (R<10^8 Ω/m). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 4

Reinforcement synthetic plies, on request a/s copper wires to discharge static electricity

Cover smooth, black, conductive, abrasion, ageing and ozone resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA DRYFOOD ANTISTATIC

TUDERTECHNICA DRYFOOD ANTISTATIC

TECHNICAL CHARACTERISTICS

Temperature range -25°C / +80°C (-13°F / +176°F)

Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
51	2,00	66	2,60	6	90	18	270	1,82	1,22	-	-
76	3,00	94	3,70	6	90	18	270	3,22	2,16	-	-
102	4,00	124	4,88	6	90	18	270	5,06	3,39	-	-
127	5,00	151	5,94	6	90	18	270	7,13	4,78	-	-
152	6,00	176	6,93	6	90	18	270	8,43	5,65	-	-

Other diameters, wall thickness and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA BfR

DRYFOOD ANTISTATIC

Suction and delivery hose suitable for powdery and granular dry food products.

DESCRIPTION

Tube NBR, white, antistatic (R<10^8 Ω/m). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 4

Reinforcement synthetic plies, galvanized wire helices, on request a/s copper wires to discharge static electricity

Cover smooth, black, conductive, abrasion, ageing and ozone resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA DRYFOOD ANTISTATIC

TECHNICAL CHARACTERISTICS

Temperature range -25°C / +80°C (-13°F / +176°F)

Vacuum 675 mmHg (26,6 inHg)

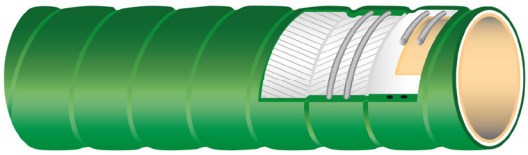
Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
51	2,00	66	2,60	6	90	18	270	1,93	1,29	300	11,81
76	3,00	92	3,62	6	90	18	270	3,25	2,18	450	17,72
102	4,00	118	4,65	6	90	18	270	4,47	2,99	600	23,62
127	5,00	145	5,71	6	90	18	270	5,80	3,89	750	29,53
152	6,00	171	6,73	6	90	18	270	7,59	5,09	950	37,40

Other diameters, wall thickness and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA BfR

TUSILO/PU FORM



Suction and delivery hose suitable for powdery and granular dry food products.

DESCRIPTION

Tube polyurethane, translucent. Meets FDA 21 CFR 177.2600

Reinforcement synthetic plies, galvanized wire helices, a/s copper wires to discharge static electricity

Cover wide corrugated, green, abrasion, ageing and ozone resistant, cloth finish

Sterilization* Citric acid max 5%, ambient temperature (20°C)
Caustic soda max 2%, ambient temperature (20°C)

Marking TUDERTECHNICA TUSILO/PU FORM

TUDERTECHNICA TUSILO/PU FORM

TECHNICAL CHARACTERISTICS

Temperature range -30°C / +100°C (-22°F / +212°F)

Vacuum 675 mmHg (26,6 inHg)

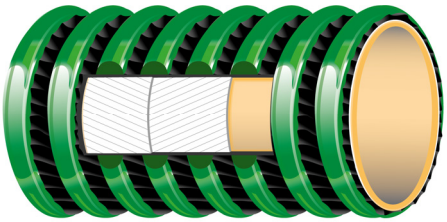
Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	-	-	5	75	15	225	0,83	0,56	75	2,95
38	1,50	-	-	5	75	15	225	1,36	0,91	130	5,12
51	2,00	-	-	5	75	15	225	2,07	1,39	185	7,28
63,5	2,50	-	-	5	75	15	225	2,51	1,68	240	9,45
76	3,00	-	-	5	75	15	225	3,22	2,16	300	11,81
102	4,00	-	-	5	75	15	225	4,49	3,01	410	16,14

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).
* the service life of the hose is directly dependent on frequency and time of sterilization

FDA

SPIRALTECH® PU



Light and flexible lorry collecting hose suitable for powdery and granular dry food products.

DESCRIPTION

Tube polyurethane, translucent. Meets FDA 21 CFR 177.2600

Reinforcement synthetic plies, a/s copper wires to discharge static electricity

Cover corrugated, black, abrasion, ageing, ozone and oil resistant, outer thermoplastic helix

Sterilization* Citric acid max 5%, ambient temperature (20°C)
Caustic soda max 2%, ambient temperature (20°C)

TECHNICAL CHARACTERISTICS

Temperature range -25°C / +80°C (-13°F / +176°F)

Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	-	-	675	26,6	10	150	30	450	1,39	0,93	90	3,54
51	2,00	-	-	675	26,6	10	150	30	450	1,81	1,21	125	4,92
63,5	2,50	-	-	600	23,6	10	150	30	450	2,20	1,47	160	6,30
76	3,00	-	-	600	23,6	10	150	30	450	2,58	1,73	190	7,48
102	4,00	-	-	525	20,7	10	150	30	450	3,37	2,26	250	9,84

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).
* the service life of the hose is directly dependent on frequency and time of sterilization

FDA

TUPETROL MASTER

Suction and delivery hose designed according to EN 12115 standards for oil and petrol, aromatic content up to 50%. Tested and certified hose by INERIS for use in Atex area (Ex-Zone).

DESCRIPTION

Tube NBR 1, black, conductive

Reinforcement synthetic plies, a/s copper wire to discharge static electricity, galvanized wire helices

Cover smooth, CR, black, conductive, abrasion, ageing, ozone and oil resistant, cloth finish

Marking yellow tape TUDERTECHNICA TUPETROL MASTER

TUDERTECHNICA TUPETROL MASTER

embossed according to norm EN 12115
TUDERTECHNICA NBR1 EN12115:2011 DN SD PN 16 BAR Ω/T Q/Y

TECHNICAL CHARACTERISTICS

Temperature range -30°C / +100°C (-22°F / +212°F)

Vacuum 675 mmHg (26,6 inHg)

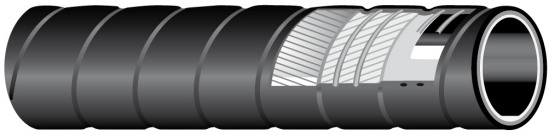
Electrical properties type Ω/T according to norm EN 12115 ($R<10^6$ Ω, $R<10^9$ Ω through the hose wall)

Norm EN12115
TRbF 131/2

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	31	1,22	16	250	64	1000	0,69	0,46	65	2,56
25	1,00	37	1,46	16	250	64	1000	0,85	0,57	90	3,54
32	1,25	44	1,73	16	250	64	1000	1,06	0,71	120	4,72
38	1,50	51	2,00	16	250	64	1000	1,42	0,95	155	6,10
50	1,97	66	2,60	16	250	64	1000	2,19	1,47	215	8,46
51	2,00	67	2,64	16	250	64	1000	2,22	1,49	215	8,46
63,5	2,50	79,5	3,13	16	250	64	1000	3,05	2,04	275	10,83
75	2,95	91	3,58	16	250	64	1000	3,54	2,37	330	12,99
76	3,00	92	3,62	16	250	64	1000	3,58	2,40	330	12,99
100	3,94	116	4,57	16	250	64	1000	4,58	3,07	450	17,72
102	4,00	118	4,65	16	250	64	1000	4,64	3,11	450	17,72

Data refer to ambient temperature (20°C)

TUWAGON MASTER



Suction and delivery hose designed according to EN 12115 standards for oil and petrol, aromatic content up to 50%. Tested and certified hose by INERIS for use in Atex area (Ex-Zone).

DESCRIPTION

Tube NBR 1, black, conductive

Reinforcement synthetic plies, a/s copper wire to discharge static electricity, galvanized wire helices.

Cover wide corrugated, CR, black, conductive, abrasion, ageing, ozone and oil resistant, cloth finish

Marking yellow tape TUDERTECHNICA TUWAGON MASTER

TUDERTECHNICA TUWAGON MASTER

embossed according to norm EN 12115

TUDERTECHNICA NBR1 EN12115:2011 DN SD PN 10 BAR Ω/T Q/Y

TECHNICAL CHARACTERISTICS

Temperature range -30°C / +100°C (-22°F / +212°F)

Vacuum 675 mmHg (26,6 inHg)

Electrical properties Type Ω/T according to norm EN 12115 ($R<10^6$ Ω, $R<10^9$ Ω through the hose wall)

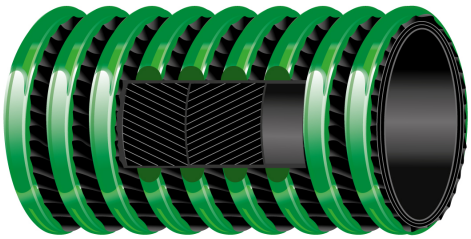
Norm EN12115

TRbF 131/2

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
32	1,25	44	1,73	10	150	40	600	1,18	0,79	100	3,94
38	1,50	51	2,00	10	150	40	600	1,39	0,93	125	4,92
50	1,97	66	2,60	10	150	40	600	2,10	1,41	180	7,09
51	2,00	67	2,64	10	150	40	600	2,13	1,43	180	7,09
63,5	2,50	79,5	3,13	10	150	40	600	2,71	1,82	230	9,06
75	2,95	91	3,58	10	150	40	600	3,18	2,13	280	11,02
76	3,00	92	3,62	10	150	40	600	3,22	2,16	280	11,02
100	3,94	116	4,57	10	150	40	600	4,41	2,95	400	15,75
102	4,00	118	4,65	10	150	40	600	4,46	2,99	400	15,75

Data refer to ambient temperature (20°C)

SPIRALTECH® FUEL



Light and flexible lorry collecting hose suitable for oil and petrol, aromatic content up to 50%.

DESCRIPTION

Tube	NBR, black, conductive
Reinforcement	synthetic plies, a/s copper wire to discharge static electricity
Cover	corrugated, black, abrasion, ageing, ozone and oil resistant, outer thermoplastic helix

TECHNICAL CHARACTERISTICS

Temperature range	-25°C / +80°C (-13°F / +176°F)
Norm	ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	-	-	675	26,6	10	150	30	450	1,17	0,78	80	3,15
51	2,00	-	-	675	26,6	10	150	30	450	1,57	1,05	100	3,94
63,5	2,50	-	-	600	23,6	10	150	30	450	1,90	1,27	130	5,12
76	3,00	-	-	600	23,6	10	150	30	450	2,30	1,54	150	5,91
102	4,00	-	-	525	20,7	10	150	30	450	2,97	1,99	200	7,87

Other diameters, wall thickness and pressure only on specific request.
Data refer to ambient temperature (20°C).

TUCHEM EPDM

Suction and delivery hose designed according to EN 12115 standards for chemical products. Tested and certified hose by INERIS for use in Atex area (Ex-Zone).

DESCRIPTION

Tube EPDM, black, conductive

Reinforcement textile plies, a/s copper wire to discharge static electricity, galvanized wire helices

Cover smooth, EPDM, black, conductive, abrasion, ageing and ozone resistant, cloth finish

Marking lilac tape
TUDERTECHNICA TUCHEM EPDM
embossed according to norm EN 12115
TUDERTECHNICA EPDM EN12115:2011 DN SD PN 16 BAR Ω/T Q/Y

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +120°C (-40°F / +248°F)

Vacuum 675 mmHg (26,6 inHg)

Electrical properties type Ω/T according to norm EN 12115 ($R<10^6$ Ω, $R<10^9$ Ω through the hose wall)

Norm EN12115
TRbF 131/2

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	31	1,22	16	250	64	1000	0,66	0,44	65	2,56
25	1,00	37	1,46	16	250	64	1000	0,81	0,54	90	3,54
32	1,25	44	1,73	16	250	64	1000	0,99	0,66	120	4,72
38	1,50	51	2,00	16	250	64	1000	1,30	0,87	155	6,10
50	1,97	66	2,60	16	250	64	1000	2,13	1,43	215	8,46
51	2,00	67	2,64	16	250	64	1000	2,16	1,45	215	8,46
63,5	2,50	79,5	3,13	16	250	64	1000	2,86	1,92	275	10,83
75	2,95	91	3,58	16	250	64	1000	3,41	2,28	330	12,99
76	3,00	92	3,62	16	250	64	1000	3,45	2,31	330	12,99
100	3,94	116	4,57	16	250	64	1000	4,41	2,95	450	17,72
102	4,00	118	4,65	16	250	64	1000	4,46	2,99	450	17,72

Data refer to ambient temperature (20°C).

TUCHEM VITON®

Suction and delivery hose designed according to EN 12115 standards for hot oils, chemical and petro-chemical products.

DESCRIPTION

Tube Viton®, black

Reinforcement synthetic plies, a/s copper wire to discharge static electricity, galvanized wire helices

Cover smooth, CR, black, conductive, abrasion, ageing, ozone and oil resistant, cloth finish

Marking green/white tape
TUDERTECHNICA TUCHEM VITON®

TUDERTECHNICA TUCHEM VITON®

embossed according to norm EN 12115
TUDERTECHNICA FKM EN12115:2011 DN SD PN 16 BAR Ω Q/Y

TECHNICAL CHARACTERISTICS

Temperature range -25°C / +120°C (-13°F / +248°F) The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

Vacuum 675 mmHg (26,6 inHg)

Electrical properties type Ω according to norm EN 12115 ($R<10^6$ Ω)

Norm EN12115
TRbF 131/2

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	31	1,22	16	250	64	1000	0,81	0,54	125	4,92
25	1,00	37	1,46	16	250	64	1000	1,01	0,68	150	5,91
32	1,25	44	1,73	16	250	64	1000	1,19	0,80	175	6,89
38	1,50	51	2,00	16	250	64	1000	1,48	0,99	225	8,86
50	1,97	66	2,60	16	250	64	1000	2,30	1,54	275	10,83
51	2,00	67	2,64	16	250	64	1000	2,33	1,56	275	10,83
63,5	2,50	79,5	3,13	16	250	64	1000	3,32	2,22	350	13,78
75	2,95	91	3,58	16	250	64	1000	3,83	2,57	400	15,75
76	3,00	92	3,62	16	250	64	1000	3,87	2,59	400	15,75
100	3,94	116	4,57	16	250	64	1000	5,01	3,36	550	21,65
102	4,00	118	4,65	16	250	64	1000	5,05	3,38	550	21,65

Data refer to ambient temperature (20°C).

TUCHEM UPE

Suction and delivery hose designed according to EN 12115 standards for chemical products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube UPE, translucent. Phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006

Reinforcement textile plies, a/s copper wire to discharge static electricity, galvanized wire helices

Cover smooth, EPDM, black, conductive, abrasion, ageing and ozone resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking blue/white tape
TUDERTECHNICA TUCHEM UPE

embossed according to norm EN 12115
TUDERTECHNICA UHMWPE EN12115:2011 DN SD PN 16 BAR Ω Q/Y

TECHNICAL CHARACTERISTICS

Temperature range -35°C / +100°C (-31°F / +212°F)

Vacuum 675 mmHg (26,6 inHg)

Electrical properties type Ω according to norm EN 12115 ($R<10^6$ Ω)

Norm EN12115
TRbF 131/2

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	31	1,22	16	250	64	1000	0,75	0,50	115	4,53
25	1,00	37	1,46	16	250	64	1000	0,92	0,62	155	6,10
32	1,25	44	1,73	16	250	64	1000	1,10	0,74	200	7,87
38	1,50	51	2,00	16	250	64	1000	1,39	0,93	240	9,45
50	1,97	66	2,60	16	250	64	1000	2,30	1,54	330	12,99
51	2,00	67	2,64	16	250	64	1000	2,33	1,56	330	12,99
63,5	2,50	79,5	3,13	16	250	64	1000	3,09	2,07	415	16,34
75	2,95	91	3,58	16	250	64	1000	3,58	2,40	500	19,69
76	3,00	92	3,62	16	250	64	1000	3,62	2,42	500	19,69
100	3,94	116	4,57	16	250	64	1000	4,63	3,10	675	26,57
102	4,00	118	4,65	16	250	64	1000	4,67	3,13	675	26,57

Data refer to ambient temperature (20°C).

TUCHEM UPE FULL CONDUCTIVE

Ex

Suction and delivery hose designed according to EN 12115 standards for chemical products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested and certified hose by INERIS for use in Atex area (Ex-Zone).

DESCRIPTION

Tube UPE, black, conductive, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE

Reinforcement textile plies, a/s copper wire to discharge static electricity, galvanized wire helices

Cover smooth, EPDM, black, conductive, abrasion, ageing and ozone resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking blue/white tape

TUDERTECHNICA TUCHEM UPE FULL CONDUCTIVE

TUDERTECHNICA TUCHEM UPE

embossed according to norm EN 12115

TUDERTECHNICA UHMWPE EN12115:2011 DN SD PN 16 BAR Ω/T Q/Y

TECHNICAL CHARACTERISTICS

Temperature range -35°C / +100°C (-31°F / +212°F)

Vacuum 675 mmHg (26,6 inHg)

Electrical properties type Ω/T according to norm EN 12115 ($R<10^6$ Ω, $R<10^9$ Ω through the hose wall)

Norm EN12115

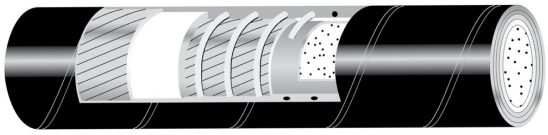
TRbF 131/2

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	31	1,22	16	250	64	1000	0,75	0,50	115	4,53
25	1,00	37	1,46	16	250	64	1000	0,92	0,62	155	6,10
32	1,25	44	1,73	16	250	64	1000	1,10	0,74	200	7,87
38	1,50	51	2,00	16	250	64	1000	1,39	0,93	240	9,45
50	1,97	66	2,60	16	250	64	1000	2,30	1,54	330	12,99
51	2,00	67	2,64	16	250	64	1000	2,33	1,56	330	12,99
63,5	2,50	79,5	3,13	16	250	64	1000	3,09	2,07	415	16,34
75	2,95	91	3,58	16	250	64	1000	3,58	2,40	500	19,69
76	3,00	92	3,62	16	250	64	1000	3,62	2,42	500	19,69
100	3,94	116	4,57	16	250	64	1000	4,63	3,10	675	26,57
102	4,00	118	4,65	16	250	64	1000	4,67	3,13	675	26,57

Data refer to ambient temperature (20°C).

FDA BfR DM 21/03/1973 CE 1935/2004 CE 10/2011 PHTHALATES REACH FREE

TUCHEM UPE CHIPS FULL CONDUCTIVE



Suction and delivery hose designed according to EN 12115 standards for chemical products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube UPE, white with conductive chips, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE

Reinforcement textile plies, a/s wire to discharge static electricity, galvanized wire helices

Cover smooth, EPDM, black, conductive, abrasion, ageing and ozone resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking blue/white tape
TUDERTECHNICA TUCHEM UPE CHIPS FULL CONDUCTIVE
TUDERTECHNICA TUCHEM UPE
embossed according to norm EN 12115
TUDERTECHNICA UHMWPE EN12115:2011 DN SD PN 16 BAR Ω/T Q/Y

TECHNICAL CHARACTERISTICS

Temperature range -35°C / +100°C (-31°F / +212°F)

Vacuum 675 mmHg (26,6 inHg)

Electrical properties type Ω/T according to norm EN 12115 ($R<10^6$ Ω, $R<10^9$ Ω through the hose wall)

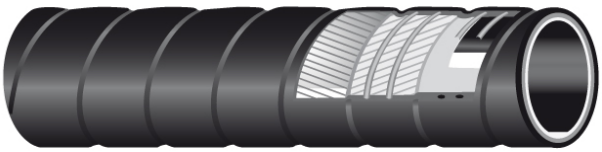
Norm EN12115
TRbF 131/2

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	31	1,22	16	250	64	1000	0,75	0,50	115	4,53
25	1,00	37	1,46	16	250	64	1000	0,92	0,62	155	6,10
32	1,25	44	1,73	16	250	64	1000	1,10	0,74	200	7,87
38	1,50	51	2,00	16	250	64	1000	1,39	0,93	240	9,45
50	1,97	66	2,60	16	250	64	1000	2,30	1,54	330	12,99
51	2,00	67	2,64	16	250	64	1000	2,33	1,56	330	12,99
63,5	2,50	79,5	3,13	16	250	64	1000	3,09	2,07	415	16,34
75	2,95	91	3,58	16	250	64	1000	3,58	2,40	500	19,69
76	3,00	92	3,62	16	250	64	1000	3,62	2,42	500	19,69
100	3,94	116	4,57	16	250	64	1000	4,63	3,10	675	26,57
102	4,00	118	4,65	16	250	64	1000	4,67	3,13	675	26,57

Data refer to ambient temperature (20°C).

FDA BfR DM 21/03/1973 CE 1935/2004 PHTHALATES REACH FREE

GLIDETECH® UPE FULL CONDUCTIVE



Suction and delivery hose designed according to EN 12115 standards for chemical products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube UPE, black, conductive, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE

Reinforcement synthetic plies, a/s copper wire to discharge static electricity, galvanized wire helices

Cover wide corrugated, black, conductive, low friction material, non marking when dragged on the floor, abrasion, ozone, ageing, oil and chemical resistant, easy to clean, glossy cover

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking white/blue transfer tape
TUDERTECHNICA GLIDETECH® UPE FULL CONDUCTIVE

embossed according to the Norm EN 12115
TUDERTECHNICA UHMWPE EN12115:2011 DN SD PN 10 BAR Ω /T Q/Y

TECHNICAL CHARACTERISTICS

Temperature range -35°C / +100°C (-31°F / +212°F)

Vacuum 675 mmHg (26,6 inHg)

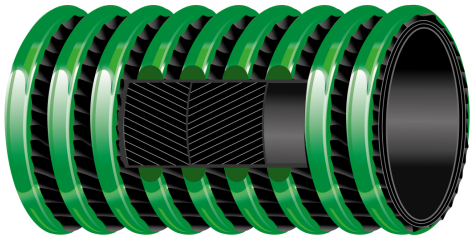
Electrical properties type Ω/T according to norm EN 12115 ($R<10^6$ Ω, $R<10^9$ Ω through the hose wall)

Norm EN12115

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	37	1,46	10	150	40	600	0,71	0,48	100	3,94
32	1,25	44	1,73	10	150	40	600	0,87	0,58	125	4,92
38	1,50	51	2,00	10	150	40	600	1,11	0,74	150	5,91
50	1,97	66	2,60	10	150	40	600	1,87	1,25	200	7,87
51	2,00	67	2,64	10	150	40	600	1,90	1,27	200	7,87
63,5	2,50	79,5	3,13	10	150	40	600	2,34	1,57	260	10,24
75	2,95	91	3,58	10	150	40	600	2,72	1,82	350	13,78
76	3,00	92	3,62	10	150	40	600	2,75	1,84	350	13,78
100	3,94	116	4,57	10	150	40	600	3,86	2,59	500	19,69
102	4,00	118	4,65	10	150	40	600	3,89	2,61	500	19,69

Data refer to ambient temperature (20°C).

SPIRALTECH® UPE CONDUCTIVE



Light and flexible lorry collecting hose suitable for chemical products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube UPE, black, conductive, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE

Reinforcement synthetic plies, a/s copper wire to discharge static electricity

Cover corrugated, black, abrasion, ageing, ozone and oil resistant, outer thermoplastic helix

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

TECHNICAL CHARACTERISTICS

Temperature range -25°C / +80°C (-13°F / +176°F)

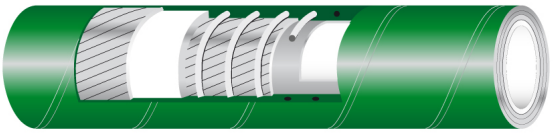
Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	-	-	675	26,6	10	150	30	450	1,05	0,70	85	3,35
51	2,00	-	-	675	26,6	10	150	30	450	1,45	0,97	120	4,72
63,5	2,50	-	-	600	23,6	10	150	30	450	1,75	1,17	155	6,10
76	3,00	-	-	600	23,6	10	150	30	450	2,06	1,38	190	7,48
102	4,00	-	-	525	20,7	10	150	30	450	2,69	1,80	260	10,24

Other diameters, wall thickness and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA BfR DM 21/03/1973 CE 1935/2004 CE 10/2011 PHTHALATES REACH FREE

GPS EVOLUTION



Suction and delivery hose designed for chemical products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube UPE, translucent. Phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006

Reinforcement textile plies, a/s copper wire to discharge static electricity, galvanized wire helices

Cover smooth, green, abrasion, ageing and ozone resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA GPS EVOLUTION

TUDERTECHNICA GPS EVOLUTION

TECHNICAL CHARACTERISTICS

Temperature range -30°C / +90°C (-22°F / +194°F)

Vacuum 675 mmHg (26,6 inHg)

Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	30	1,18	10	150	30	450	0,62	0,42	115	4,53
25	1,00	36	1,42	10	150	30	450	0,77	0,52	150	5,91
32	1,25	45	1,77	10	150	30	450	1,04	0,70	180	7,09
38	1,50	51	2,01	10	150	30	450	1,33	0,89	220	8,66
51	2,00	65	2,56	10	150	30	450	1,90	1,27	280	11,02
63,5	2,50	78,5	3,09	10	150	30	450	2,50	1,68	360	14,17
76	3,00	91	3,58	10	150	30	450	3,02	2,02	420	16,54
102	4,00	119	4,69	10	150	30	450	4,61	3,09	600	23,62

Other diameters, wall thickness, cover colours and pressure only on specific request.
Data refer to ambient temperature (20°C).

FDA BfR DM 21/03/1973 MHLW 1959-2006 CE 1935/2004 CE 10/2011 PHTHALATES REACH FREE

TUFLON PFA CHEM

Suction and delivery hose designed according to EN 12115 standards for chemicals and solvents, except for chlorine trifluoride, chlorine and fluorine gas, oxygen difluoride, phosgene and molten alkalis (for ex. sodium). Hose resistant to high temperatures, used as connection between pipes and fixed equipments. Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industry, where a flexible connection is required. The hose is produced with high quality elastomers, with excellent chemical and mechanical properties. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Not intended for use as an implant material. Not suitable for blood or human fluids.

DESCRIPTION

Tube PFA (perfluoroalkoxy), white, phthalates free, tested in according to 1907/2006/CE (REACH). PFA is a polymer with excellent resistance to high temperature, mechanical stress and to oxidation. It complies with FDA 21 CFR 177.1550, USP XXXII class VI, ISO 10993 Sections 5,10,11:2009 and JAPAN Ministry of Health and Welfare Notice No.370,1959 and No.201,2006

Reinforcement synthetic plies, a/s copper wires to discharge static electricity, galvanized wire helices

Cover smooth, EPDM, black, conductive, abrasion, ageing and ozone resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking red/white/blue transfer tape TUDERTECHNICA TUFLON PFA CHEM

embossed according to norm EN 12115
TUDERTECHNICA PFA EN12115:2011 DN SD PN 16 BAR Ω Q/Y

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +150°C (-40°F / +302°F) The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

Vacuum 675 mmHg (26,6 inHg)

Electrical properties type Ω according to EN 12115 ($R<10^6$ Ω)

Norm EN12115
TRbF 131/2

Inside diameter		Outside diameter		Length		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mt]	[ft]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	25	1,00	40	130	16	250	64	1000	0,54	0,36	90	3,54
19	0,75	31	1,22	40	130	16	250	64	1000	0,70	0,47	130	5,12
25	1,00	37	1,46	40	130	16	250	64	1000	0,86	0,58	170	6,69
32	1,25	44	1,73	40	130	16	250	64	1000	1,18	0,79	215	8,46
38	1,50	51	2,00	40	130	16	250	64	1000	1,43	0,96	255	10,04
50	1,97	66	2,60	40	130	16	250	64	1000	2,08	1,39	330	12,99
63,5	2,50	79,5	3,13	20	65	16	250	64	1000	2,96	1,98	430	16,93
75	2,95	91	3,58	20	65	16	250	64	1000	3,43	2,30	510	20,08
100	3,94	116	4,57	20	65	12	180	48	750	4,60	3,08	675	26,57

Data refer to ambient temperature (20°C).

FDA MHLW 1959-2006 PHTHALATES REACH FREE USP CLASS VI ISO 10993

TUFLON PTFE CHEM

Suction and delivery hose designed according to EN 12115 standards for chemicals and solvents, except for chlorine trifluoride, chlorine and fluorine gas, oxygen difluoride, phosgene and molten alkalis (for ex. sodium). Hose resistant to high temperatures, used as connection between pipes and fixed equipments. Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industry, where a flexible connection is required. The hose is produced with high quality elastomers, with excellent chemical and mechanical properties. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXVI class VI, not cytotoxic according to ISO 10993 Section 5:2009. Not intended for use as an implant material. Not suitable for blood or human fluids.

DESCRIPTION

Tube PTFE (polytetrafluorethylene) white, phthalates free, tested in compliance with 1907/2006/CE (REACH). PTFE is a polymer with excellent resistance to high temperature, mechanical stress and to oxidation. It complies with FDA 21 CFR 177.1550 standards, USP XXXVI class VI, ISO 10993 Sections 5,10,11:2009, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE, 3A Sanitary Standard Class II

Reinforcement synthetic plies, galvanized wire helices, a/s copper wires to discharge static electricity

Cover smooth, EPDM, black, conductive, abrasion, ageing and ozone resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking red/white/blue transfer tape TUDERTECHNICA TUFLON PTFE CHEM

Embossed stripe according to the Norm EN 12115
TUDERTECHNICA PTFE EN12115:2011 DN SD PN 16 BAR Ω Q/Y

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +150°C (-40°F / +302°F) The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

Vacuum 675 mmHg (26,6 inHg)

Electrical properties type Ω according to EN 12115 ($R<10^6$ Ω)

Norm EN12115
TRbF 131/2

Inside diameter		Outside diameter		Length		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mt]	[ft]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	25	1,00	40	130	16	250	64	1000	0,54	0,36	90	3,54
19	0,75	31	1,22	40	130	16	250	64	1000	0,70	0,47	130	5,12
25	1,00	37	1,46	40	130	16	250	64	1000	0,86	0,58	170	6,69
32	1,25	44	1,73	40	130	16	250	64	1000	1,18	0,79	215	8,46
38	1,50	51	2,00	40	130	16	250	64	1000	1,43	0,96	255	10,04
50	1,97	66	2,60	40	130	16	250	64	1000	2,08	1,39	330	12,99
63,5	2,50	79,5	3,13	20	65	16	250	64	1000	2,96	1,98	430	16,93
75	2,95	91	3,58	20	65	16	250	64	1000	3,43	2,30	510	20,08
100	3,94	116	4,57	20	65	12	180	48	750	4,60	3,08	675	26,57

Data refer to ambient temperature (20°C).

FDA · CE 1935/2004 · CE 10/2011 · 3A · PHTHALATES FREE REACH · USP CLASS VI · ISO 10993

TUFLON PTFE CHEM FULL CONDUCTIVE

Suction and delivery hose designed according to EN 12115 standards for chemicals and solvents, except for chlorine trifluoride, chlorine and fluorine gas, oxygen difluoride, phosgene and molten alkalis (for ex. sodium). Hose resistant to high temperatures, used as connection between pipes and fixed equipments. Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industry, where a flexible connection is required. The hose is produced with high quality elastomers, with excellent chemical and mechanical properties. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Tested and certified hose by INERIS for use in Atex area (Ex-Zone). Not intended for use as an implant material. Not suitable for blood or human fluids.

DESCRIPTION

Tube PTFE (polytetrafluorethylene) black, conductive, phthalates free, tested in compliance with 1907/2006/CE (REACH). PTFE is a polymer with excellent resistance to high temperature, mechanical stress and to oxidation. It complies with FDA 21 CFR 177.1550 standards, USP XXXII class VI, ISO 10993 Sections 5,10,11:2009, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE

Reinforcement synthetic plies, galvanized wire helices, a/s copper wires to discharge static electricity

Cover smooth, EPDM, black, conductive, abrasion, ageing and ozone resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking red/white/blue transfer tape
TUDERTECHNICA TUFLON PTFE CHEM FULL CONDUCTIVE

Embossed stripe according to the Norm EN 12115
TUDERTECHNICA PTFE EN12115:2011 DN SD PN 16 BAR Ω/T Q/Y

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +150°C (-40°F / +302°F) The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

Vacuum 675 mmHg (26,6 inHg)

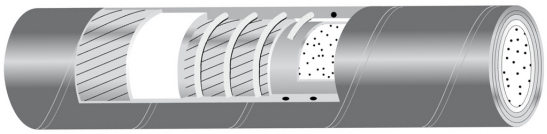
Electrical properties type Ω/T according to EN 12115 ($R<10^6$ Ω, $R<10^9$ Ω through the hose wall)

Norm EN12115
TRbF 131/2

Inside diameter		Outside diameter		Length		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mt]	[ft]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	25	1,00	40	130	16	250	64	1000	0,54	0,36	90	3,54
19	0,75	31	1,22	40	130	16	250	64	1000	0,70	0,47	130	5,12
25	1,00	37	1,46	40	130	16	250	64	1000	0,86	0,58	170	6,69
32	1,25	44	1,73	40	130	16	250	64	1000	1,18	0,79	215	8,46
38	1,50	51	2,00	40	130	16	250	64	1000	1,43	0,96	255	10,04
50	1,97	66	2,60	40	130	16	250	64	1000	2,08	1,39	330	12,99
63,5	2,50	79,5	3,13	20	65	16	250	64	1000	2,96	1,98	430	16,93
75	2,95	91	3,58	20	65	16	250	64	1000	3,43	2,30	510	20,08

Data refer to ambient temperature (20°C).

TUCHEM UPE CHIPS PHARM



Suction and delivery hose designed according to EN 12115 standards for chemical and pharmaceutical products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

DESCRIPTION

Tube UPE, white with conductive chips, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE

Reinforcement textile plies, a/s wire to discharge static electricity, galvanized wire helices

Cover smooth, EPDM, grey, abrasion, ageing and ozone resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking blue/white tape
TUDERTECHNICA TUCHEM UPE CHIPS PHARM
TUDERTECHNICA TUCHEM UPE
embossed according to norm EN 12115
TUDERTECHNICA UHMWPE EN12115:2011 DN SD PN 16 BAR Ω Q/Y

TECHNICAL CHARACTERISTICS

Temperature range -35°C / +100°C (-31°F / +212°F)

Vacuum 675 mmHg (26,6 inHg)

Electrical properties type Ω according to norm EN 12115 ($R<10^6\ \Omega$)

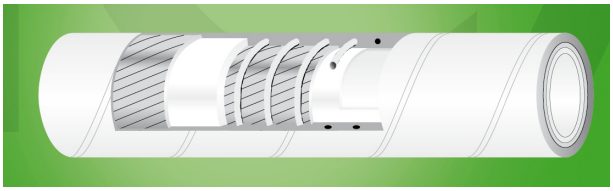
Norm EN12115

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	31	1,22	16	250	64	1000	0,75	0,50	115	4,53
25	1,00	37	1,46	16	250	64	1000	0,92	0,62	155	6,10
32	1,25	44	1,73	16	250	64	1000	1,10	0,74	200	7,87
38	1,50	51	2,00	16	250	64	1000	1,39	0,93	240	9,45
50	1,97	66	2,60	16	250	64	1000	2,30	1,54	330	12,99
51	2,00	67	2,64	16	250	64	1000	2,33	1,56	330	12,99
63,5	2,50	79,5	3,13	16	250	64	1000	3,09	2,07	415	16,34
75	2,95	91	3,58	16	250	64	1000	3,58	2,40	500	19,69
76	3,00	92	3,62	16	250	64	1000	3,62	2,42	500	19,69
100	3,94	116	4,57	16	250	64	1000	4,63	3,10	675	26,57
102	4,00	118	4,65	16	250	64	1000	4,67	3,13	675	26,57

Data refer to ambient temperature (20°C).

FDA BfR DM 21/03/1973 CE 1935/2004 PHTHALATES REACH FREE

TUFLON PFA PHARM



Suction and delivery hose designed according to EN 12115 standards for food, cosmetic and pharmaceutical products, chemicals and solvents, except for chlorine trifluoride, chlorine and fluorine gas, oxygen difluoride, phosgene and molten alkalis (for ex. sodium). Hose resistant to high temperatures, used as connection between pipes and fixed equipments. Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industry, where a flexible connection is required. The hose is produced with high quality elastomers, with excellent chemical and mechanical properties. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Not intended for use as an implant material. Not suitable for blood or human fluids.

DESCRIPTION

Tube PFA (perfluoroalkoxy), white, phthalates free, tested in compliance with 1907/2006/CE (REACH). PFA is a polymer with excellent resistance to high temperature, mechanical stress and to oxidation. It complies with FDA 21 CFR 177.1550, USP XXXII class VI, ISO 10993 Sections 5,10,11:2009 and JAPAN Ministry of Health and Welfare Notice No.370,1959 and No.201,2006

Reinforcement synthetic plies, a/s wires to discharge static electricity, galvanized wire helices

Cover smooth, EPDM, white, abrasion, ageing and ozone resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking red/white/blue transfer tape TUDERTECHNICA TUFLON PFA PHARM

TUDERTECHNICA TUFLON

embossed according to norm EN 12115
TUDERTECHNICA PFA EN12115:2011 DN SD PN 16 BAR M Q/Y

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +150°C (-40°F / +302°F) The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

Vacuum 675 mmHg (26,6 inHg)

Electrical properties type M according to EN 12115 ($R<10^2\ \Omega$)

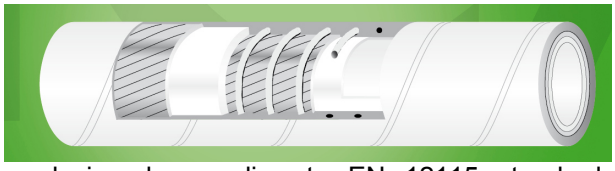
Norm EN12115

Inside diameter		Outside diameter		Length		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mt]	[ft]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	25	1,00	40	130	16	250	64	1000	0,54	0,36	90	3,54
19	0,75	31	1,22	40	130	16	250	64	1000	0,70	0,47	130	5,12
25	1,00	37	1,46	40	130	16	250	64	1000	0,86	0,58	170	6,69
32	1,25	44	1,73	40	130	16	250	64	1000	1,18	0,79	215	8,46
38	1,50	51	2,00	40	130	16	250	64	1000	1,43	0,96	255	10,04
50	1,97	66	2,60	40	130	16	250	64	1000	2,08	1,39	330	12,99
63,5	2,50	79,5	3,13	20	65	16	250	64	1000	2,96	1,98	430	16,93
75	2,95	91	3,58	20	65	16	250	64	1000	3,43	2,30	510	20,08
100	3,94	116	4,57	20	65	12	180	48	750	4,60	3,08	675	26,57

Data refer to ambient temperature (20°C).

FDA · MHLW 1959-2006 · PHTHALATES FREE REACH · USP CLASS VI · ISO 10993

TUFLON PTFE PHARM



Suction and delivery hose designed according to EN 12115 standards for food, cosmetic and pharmaceutical products, chemicals and solvents, except for chlorine trifluoride, chlorine and fluorine gas, oxygen difluoride, phosgene and molten alkalis (for ex. sodium). Hose resistant to high temperatures, used as connection between pipes and fixed equipments. Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industry, where a flexible connection is required. The hose is produced with high quality elastomers, with excellent chemical and mechanical properties. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXVI class VI, not cytotoxic according to ISO 10993 Section 5:2009. Not intended for use as an implant material. Not suitable for blood or human fluids.

DESCRIPTION

Tube PTFE (polytetrafluorethylene) white, phthalates free, tested in compliance with 1907/2006/CE (REACH). PTFE is a polymer with excellent resistance to high temperature, mechanical stress and to oxidation. It complies with FDA 21 CFR 177.1550 standards, USP XXXVI class VI, ISO 10993 Sections 5,10,11:2009, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE, 3A Sanitary Standard Class II

Reinforcement synthetic plies, galvanized wire helices, a/s wires to discharge static electricity

Cover smooth, EPDM, white, abrasion, ageing and ozone resistant, cloth finish

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking red/white/blue transfer tape TUDERTECHNICA TUFLON PTFE PHARM

TUDERTECHNICA TUFLON

Embossed stripe according to the Norm EN 12115
TUDERTECHNICA PTFE EN12115:2011 DN SD PN 16 BAR M Q/Y

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +150°C (-40°F / +302°F) The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

Vacuum 675 mmHg (26,6 inHg)

Electrical properties type M according to EN 12115 ($R<10^2\ \Omega$)

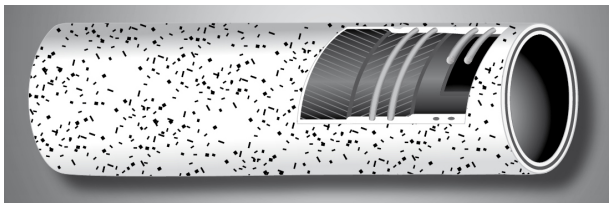
Norm EN12115

Inside diameter		Outside diameter		Length		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mt]	[ft]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	25	1,00	40	130	16	250	64	1000	0,54	0,36	90	3,54
19	0,75	31	1,22	40	130	16	250	64	1000	0,70	0,47	130	5,12
25	1,00	37	1,46	40	130	16	250	64	1000	0,86	0,58	170	6,69
32	1,25	44	1,73	40	130	16	250	64	1000	1,18	0,79	215	8,46
38	1,50	51	2,00	40	130	16	250	64	1000	1,43	0,96	255	10,04
50	1,97	66	2,60	40	130	16	250	64	1000	2,08	1,39	330	12,99
63,5	2,50	79,5	3,13	20	65	16	250	64	1000	2,96	1,98	430	16,93
75	2,95	91	3,58	20	65	16	250	64	1000	3,43	2,30	510	20,08
100	3,94	116	4,57	20	65	12	180	48	750	4,60	3,08	675	26,57

Data refer to ambient temperature (20°C).

FDA · CE 1935/2004 · CE 10/2011 · 3A · PHTHALATES REACH FREE · USP CLASS VI · ISO 10993

TUFLON PTFE BIOTECH



Suction and delivery hose designed according to EN 12115 standards for food, cosmetic and pharmaceutical products, chemicals and solvents, except for chlorine trifluoride, chlorine and fluorine gas, oxygen difluoride, phosgene and molten alkalis (for ex. sodium). Hose resistant to high temperatures, used as connection between pipes and fixed equipments. Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industry, where a flexible connection is required. The hose is produced with high quality elastomers, with excellent chemical and mechanical properties. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Tested and certified hose by INERIS for use in Atex area (Ex-Zone). Not intended for use as an implant material. Not suitable for blood or human fluids.

DESCRIPTION

Tube PTFE (polytetrafluorethylene) black, conductive, phthalates free, tested in compliance with 1907/2006/CE (REACH). PTFE is a polymer with excellent resistance to high temperature, mechanical stress and to oxidation. It complies with FDA 21 CFR 177.1550 standards, USP XXXII class VI, ISO 10993 Sections 5,10,11:2009, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE

Reinforcement synthetic plies, galvanized wire helices, a/s wires to discharge static electricity

Cover smooth, white with conductive chips, low friction material, non marking when dragged on the floor, oil, chemical, abrasion, ageing and ozone resistant, easy to clean, glossy cover. Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking red/white/blue transfer tape TUDERTECHNICA TUFLON PTFE BIOTECH

embossed according to norm EN 12115
TUDERTECHNICA PTFE EN12115:2011 DN SD PN 16 BAR Ω/T Q/Y

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +150°C (-40°F / +302°F) The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

Vacuum 675 mmHg (26,6 inHg)

Electrical properties type Ω /T according to EN 12115 ($R<10^6$ Ω, $R<10^9$ Ω through the hose wall)

Norm EN12115

Inside diameter		Outside diameter		Length		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mt]	[ft]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	25	1,00	40	130	16	250	64	1000	0,54	0,36	90	3,54
19	0,75	31	1,22	40	130	16	250	64	1000	0,70	0,47	130	5,12
25	1,00	37	1,46	40	130	16	250	64	1000	0,86	0,58	170	6,69
32	1,25	44	1,73	40	130	16	250	64	1000	1,17	0,78	220	8,66
38	1,50	51	2,00	40	130	16	250	64	1000	1,35	0,90	260	10,24
50	1,97	66	2,60	40	130	16	250	64	1000	2,25	1,51	345	13,58
63,5	2,50	79,5	3,13	20	65	16	250	64	1000	2,90	1,94	440	17,32
75	2,95	91	3,58	20	65	16	250	64	1000	3,88	2,60	520	20,47

Data refer to ambient temperature (20°C).

Available also with PFA and PTFE white tube (contact Tudertechnica for datasheet).

FDA · CE 1935/2004 · CE 10/2011 · PHTHALATES FREE REACH · USP CLASS VI · ISO 10993

GLIDETECH® PTFE BIOTECH

Suction and delivery hose designed according to EN 12115 standards for food, cosmetic and pharmaceutical products, chemicals and solvents, except for chlorine trifluoride, chlorine and fluorine gas, oxygen difluoride, phosgene and molten alkalis (for ex. sodium). Hose resistant to high temperatures, used as connection between pipes and fixed equipments. Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industry, where a flexible connection is required. The hose is produced with high quality elastomers, with excellent chemical and mechanical properties. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Tested and certified hose by INERIS for use in Atex area (Ex-Zone). Not intended for use as an implant material. Not suitable for blood or human fluids.

DESCRIPTION

Tube PTFE (polytetrafluorethylene) black, conductive, phthalates free, tested in compliance with 1907/2006/CE (REACH). PTFE is a polymer with excellent resistance to high temperature, mechanical stress and to oxidation. It complies with FDA 21 CFR 177.1550 standards, USP XXXII class VI, ISO 10993 Sections 5,10,11:2009, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE

Reinforcement synthetic plies, galvanized wire helices, a/s wires to discharge static electricity

Cover wide corrugated, white with conductive chips, low friction material, non marking when dragged on the floor, oil, chemical, abrasion, ageing and ozone resistant, easy to clean, glossy cover. Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking red/white/blue transfer tape TUDERTECHNICA GLIDETECH® PTFE BIOTECH

embossed according to norm EN 12115
TUDERTECHNICA PTFE EN12115:2011 DN SD PN 10 BAR Ω/T Q/Y

TECHNICAL CHARACTERISTICS

Temperature range -40°C/+150°C (-40°F / +302°F) The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

Vacuum 675 mmHg (26,6 inHg)

Electrical properties type Ω /T according to EN 12115 ($R<10^6$ Ω, $R<10^9$ Ω through the hose wall)

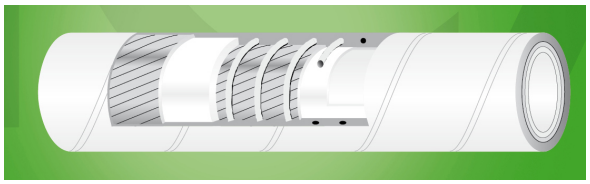
Norm EN12115

Inside diameter		Outside diameter		Length		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mt]	[ft]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	25	1,00	40	130	10	150	40	600	0,49	0,33	70	2,76
19	0,75	31	1,22	40	130	10	150	40	600	0,64	0,43	100	3,94
25	1,00	37	1,46	40	130	10	150	40	600	0,79	0,53	130	5,12
32	1,25	44	1,73	40	130	10	150	40	600	0,91	0,61	160	6,30
38	1,50	51	2,00	40	130	10	150	40	600	1,24	0,83	190	7,48
50	1,97	66	2,60	40	130	10	150	40	600	1,84	1,23	250	9,84
63,5	2,50	79,5	3,13	20	65	10	150	40	600	2,56	1,72	320	12,60
75	2,95	91	3,58	20	65	10	150	40	600	2,98	2,00	380	14,96

Data refer to ambient temperature (20°C).

Available also with PFA and PTFE white tube (contact Tudertechnica for datasheet).

TUFLON PTFE SIL



Suction and delivery hose for food, cosmetic and pharmaceutical products, chemicals and solvents, except , for chlorine trifluoride, chlorine and fluorine gas, oxygen difluoride, phosgene and molten alkalis (for ex. sodium). Hose resistant to high temperatures, used as connection between pipes and fixed equipments. Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industry, where a flexible connection is required. The hose is produced with high quality elastomers, with excellent chemical and mechanical properties. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXVI class VI, not cytotoxic according to ISO 10993 Section 5:2009. Not intended for use as an implant material. Not suitable for blood or human fluids.

DESCRIPTION

Tube PTFE (polytetrafluorethylene) white, phthalates free, tested in compliance with 1907/2006/CE (REACH). PTFE is a polymer with excellent resistance to high temperature, mechanical stress and to oxidation. It complies with FDA 21 CFR 177.1550 standards, USP XXXVI class VI, ISO 10993 Sections 5,10,11:2009, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE, 3A Sanitary Standard Class II

Reinforcement synthetic plies, stainless steel wire helices, on request a/s wires to discharge static electricity

Cover smooth, silicone, white. Meets FDA CFR 21 PART 177.2600, BfR Recommendation XV, European Reglement 1935/2004/CE. Heat, abrasion, ageing and ozone resistant, glossy cover

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA TUFLON PTFE SIL

TUDERTECHNICA TUFLON PTFE SIL

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +150°C (-40°F / +302°F) The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

Vacuum 675 mmHg (26,6 inHg)

Norm ISO 1307 for dimensional tolerances

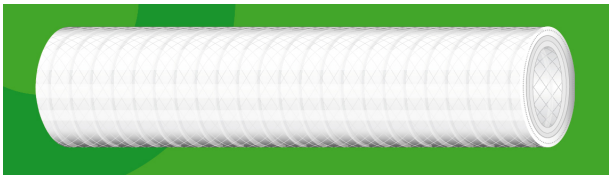
Inside diameter		Outside diameter		Length		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mt]	[ft]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	24	0,94	10	32,5	10	150	40	600	0,47	0,31	45	1,77
19	0,75	30	1,18	10	32,5	10	150	40	600	0,61	0,41	70	2,76
25	1,00	36	1,42	10	32,5	10	150	40	600	0,76	0,51	90	3,54
32	1,25	43	1,69	10	32,5	8	120	32	480	0,93	0,62	120	4,72
38	1,50	50	1,97	10	32,5	7	105	28	420	1,26	0,84	140	5,51
50	1,97	62	2,44	10	32,5	7	105	28	420	1,60	1,07	180	7,09
63,5	2,50	79,5	3,13	10	32,5	6	90	24	360	2,69	1,80	320	12,60
75	2,95	91	3,58	10	32,5	5	75	20	300	3,24	2,17	380	14,96
100	3,94	117	4,61	10	32,5	4	60	16	240	5,06	3,39	580	22,84

Data refer to ambient temperature (20°C) and static conditions; we recommend a reduction of 20% working pressure for every 100°C of temperature increase. Other diameters, wall thickness and pressure only on specific request.

Available also with PFA white and PTFE black tube (contact Tudertechnica for datasheet).

FDA · CE 1935/2004 · CE 10/2011 · 3A · PHTHALATES FREE REACH · USP CLASS VI · ISO 10993

TUSIL BRIGHT



Suction and delivery hose suitable for cosmetic, pharmaceutical and food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Meets migration test according to BfR Recommendation XV & XXI Cat. 2. Not intended for use as an implant material. Not suitable for blood or human fluids.

DESCRIPTION

Tube silicone, translucent, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA CFR 21 PART 177.2600, USP XXXII class VI requirements, European Pharmacopoeia 3.1.9 Ed. VII 2011, ISO 10993 Sections 5,10,11:2009, BfR Recommendation XV & XXI Cat. 2, European Reglement 1935/2004/CE, DM 21/03/1973 e seguenti, Japan Ministry of Health and Welfare Notice No.370,1959, No.201,2006 and revision 2012, 3A Sanitary Standard Class II

Reinforcement high temperature resistant plies, stainless steel wire helix

Cover smooth, silicone, translucent, heat, ageing, ozone and abrasion resistant, glossy cover

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA TUSIL BRIGHT

TUDERTECHNICA TUSIL BRIGHT

TECHNICAL CHARACTERISTICS

Temperature range -60°C / +200°C (-76°F / +392°F)

Vacuum 675 mmHg (26,6 inHg)

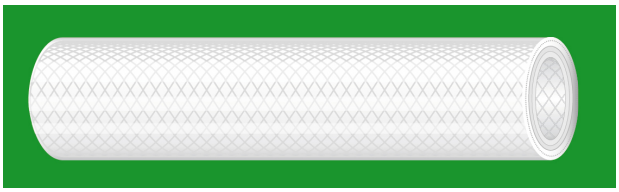
Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	24	0,94	15	225	45	675	0,46	0,31	60	2,36
16	0,63	27	1,06	14	210	42	630	0,53	0,36	70	2,76
19	0,75	30	1,18	13	195	39	585	0,60	0,40	80	3,15
25	1,00	36	1,42	10	150	30	450	0,73	0,49	100	3,94
32	1,25	43	1,69	8	120	24	360	0,89	0,60	130	5,12
38	1,50	51	2,00	7	105	21	315	1,21	0,81	155	6,10
51	2,00	64	2,52	6	90	18	270	1,56	1,05	210	8,27
63,5	2,50	78,5	3,09	5	75	15	225	2,32	1,55	260	10,24
76	3,00	91	3,58	4	60	12	180	2,72	1,82	310	12,20
102	4,00	117	4,61	3	45	9	135	3,55	2,38	420	16,54

Data refer to ambient temperature (20°C); we recommend a reduction of 20% working pressure for every 100°C of temperature increase. Other diameters, wall thickness and pressure only on specific request.

FDA BfR DM 21/03/1973 MHLW 1959-2006 CE 1935/2004 3A PHTHALATES REACH FREE USP CLASS VI ISO 10993 EU PHARMA 3.1.9

TUSIL BRIGHT/D



Delivery hose suitable for cosmetic, pharmaceutical and food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Meets migration test according to BfR Recommendation XV & XXI Cat. 2. Not intended for use as an implant material. Not suitable for blood or human fluids.

DESCRIPTION

Tube silicone, translucent, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA CFR 21 PART 177.2600, USP XXXII class VI requirements, European Pharmacopoeia 3.1.9 Ed. VII 2011, ISO 10993 Sections 5,10,11:2009, BfR Recommendation XV & XXI Cat. 2, European Reglement 1935/2004/CE, DM 21/03/1973 e seguenti, Japan Ministry of Health and Welfare Notice No.370,1959, No.201,2006 and revision 2012, 3A Sanitary Standard Class II

Reinforcement high temperature resistant plies

Cover smooth, silicone, translucent, heat, ageing, ozone and abrasion resistant, glossy cover

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA TUSIL BRIGHT

TUDERTECHNICA TUSIL BRIGHT

TECHNICAL CHARACTERISTICS

Temperature range -60°C / +200°C (-76°F / +392°F)

Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
10	0,39	22	0,87	-	-	16	250	48	750	0,35	0,23	-	-
13	0,50	25	1,00	-	-	15	225	45	675	0,41	0,27	-	-
16	0,63	28	1,10	-	-	14	210	42	630	0,48	0,32	-	-
19	0,75	31	1,22	-	-	13	195	39	585	0,55	0,37	-	-
25	1,00	37	1,46	-	-	10	150	30	450	0,68	0,46	-	-
32	1,25	44	1,73	-	-	8	120	24	360	0,83	0,56	-	-
38	1,50	50	1,97	-	-	7	105	21	315	0,96	0,64	-	-
51	2,00	63	2,48	-	-	6	90	18	270	1,24	0,83	-	-
63,5	2,50	76,5	3,01	-	-	5	75	15	225	1,68	1,13	-	-
76	3,00	89	3,50	-	-	4	60	12	180	1,98	1,33	-	-
102	4,00	115	4,53	-	-	3	45	9	135	2,61	1,75	-	-

Data refer to ambient temperature (20°C); we recommend a reduction of 20% working pressure for every 100°C of temperature increase. Other diameters, wall thickness and pressure only on specific request.

FDA · BfR · DM 21/03/1973 · MHLW 1959-2006 · CE 1935/2004 · 3A · PHTHALATES REACH FREE · USP CLASS VI · ISO 10993 · EU PHARMA 3.1.9

TUSILPURE

Suction and delivery hose suitable for cosmetic, pharmaceutical and food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Not intended for use as an implant material. Not suitable for blood or human fluids.

DESCRIPTION

Tube silicone, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA CFR 21 PART 177.2600, USP XXXII class VI requirements, European Pharmacopoeia 3.1.9 Ed. VII 2011, ISO 10993 Sections 5,10,11:2009, BfR Recommendation XV & XXI Cat. 2, European Reglement 1935/2004/CE, DM 21/03/1973 e seguenti, Japan Ministry of Health and Welfare Notice No.370,1959, No.201,2006, 3A Sanitary Standard Class II

Reinforcement high temperature resistant plies, stainless steel wire helix

Cover smooth, silicone, white, heat, ageing, ozone and abrasion resistant, glossy cover

Sterilization refer to guidelines for cleaning and sanitizing on Tudertechnica website

Marking TUDERTECHNICA TUSILPURE

TUDERTECHNICA TUSILPURE

TECHNICAL CHARACTERISTICS

Temperature range -60°C / +200°C (-76°F / +392°F)

Vacuum 675 mmHg (26,6 inHg)

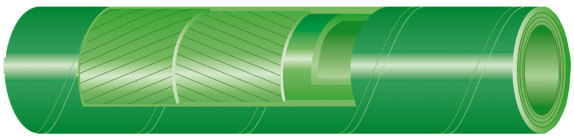
Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	23	0,91	15	225	45	675	0,38	0,25	60	2,36
16	0,63	26	1,02	14	210	42	630	0,44	0,29	70	2,76
19	0,75	29	1,14	13	195	39	585	0,50	0,34	80	3,15
25	1,00	35	1,38	10	150	30	450	0,61	0,41	100	3,94
32	1,25	42	1,65	8	120	24	360	0,76	0,51	130	5,12
38	1,50	49	1,93	7	105	21	315	1,05	0,70	155	6,10
51	2,00	62	2,44	6	90	18	270	1,36	0,91	210	8,27
63,5	2,50	76,5	3,01	5	75	15	225	2,06	1,38	260	10,24
76	3,00	89	3,50	4	60	12	180	2,42	1,62	310	12,20
102	4,00	115	4,53	3	45	9	135	3,39	2,27	420	16,54

Data refer to ambient temperature (20°C); we recommend a reduction of 20% working pressure for every 100°C of temperature increase. Other diameters, wall thickness and pressure only on specific request.

FDA · BfR · DM 21/03/1973 · CE 1935/2004 · 3A · PHTHALATES FREE REACH · USP CLASS VI · ISO 10993 · EU PHARMA 3.1.9

TUSIL RAD



Straight connection between radiator and engine. Temperature range: -60°C / +200°C (-76°F / +392°F).

DESCRIPTION

Tube silicone, green, heat and anti freeze liquid resistant

Reinforcement high temperature resistant plies

Cover smooth, silicone, green, abrasion, ageing, ozone and heat resistant, cloth finish

Marking TUDERTECHNICA TUSIL RAD

TUDERTECHNICA TUSIL RAD

TECHNICAL CHARACTERISTICS

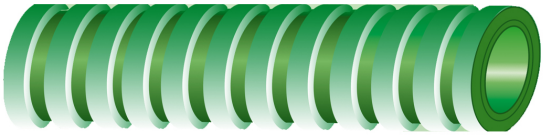
Temperature range -60°C / +200°C (-76°F / +392°F)

Norm SAE J20R1 CLASS A
TMC RP303B
ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
10	0,39	18	0,71	-	-	20	300	60	900	0,20	0,13	-	-
13	0,50	21	0,83	-	-	19	285	57	855	0,24	0,16	-	-
16	0,63	24	0,94	-	-	17	255	51	765	0,29	0,19	-	-
19	0,75	29	1,14	-	-	13	195	39	585	0,45	0,30	-	-
25	1,00	35	1,48	-	-	11	165	33	495	0,56	0,38	-	-
32	1,25	42	1,65	-	-	9	135	27	405	0,70	0,47	-	-
38	1,50	48	1,89	-	-	7	105	21	315	0,81	0,54	-	-
51	2,00	61	2,40	-	-	6	90	18	270	1,05	0,79	-	-
63,5	2,50	73,5	2,89	-	-	5	75	15	225	1,28	0,86	-	-
76	3,00	86	3,39	-	-	4	60	12	180	1,52	1,02	-	-
102	4,00	112	4,41	-	-	3	45	9	135	2,01	1,35	-	-

Data refer to ambient temperature (20°C); we recommend a reduction of 20% working pressure for every 100°C of temperature increase. Other diameters, wall thickness and pressure only on specific request.

TUSIL RADFLEX



Tight bend connection between radiator and engine. Can be used to replace pre-formed elbows due to the highly flexible structure. Temperature range: -60°C / +200°C (-76°F / +392°F).

DESCRIPTION

Tube silicone, green, heat and anti freeze liquid resistant
Reinforcement high temperature resistant plies, galvanized wire helix
Cover square corrugated, silicone, green, abrasion, ageing, ozone and heat resistant, cloth finish
Marking TUDERTECHNICA TUSIL RADFLEX

TECHNICAL CHARACTERISTICS

Temperature range -60°C / +200°C (-76°F / +392°F)
Vacuum 450 mmHg (17,7 inHg)
Norm SAE J20R2 CLASS A
TMC RP303B
ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	23	0,91	5	75	15	225	0,31	0,21	30	1,18
16	0,63	26	1,02	5	75	15	225	0,37	0,25	40	1,57
19	0,75	29	1,14	5	75	15	225	0,42	0,28	50	1,97
25	1,00	35	1,38	5	75	15	225	0,53	0,36	65	2,56
32	1,25	43	1,69	5	75	15	225	0,79	0,53	85	3,35
38	1,50	49	1,93	5	75	15	225	0,92	0,62	105	4,13
51	2,00	64	2,52	5	75	15	225	1,48	0,99	150	5,91
63,5	2,50	77,5	3,05	5	75	15	225	1,97	1,32	220	8,66
76	3,00	92	3,62	5	75	15	225	2,56	1,72	270	10,63
102	4,00	119	4,69	5	75	15	225	3,70	2,48	400	15,75

Data refer to ambient temperature (20°C); we recommend a reduction of 20% working pressure for every 100°C of temperature increase. Other diameters, wall thickness and pressure only on specific request.

TUSIL MARINE

Used as straight connections in the wet exhaust system and engine water circulation lines.

DESCRIPTION

Tube silicone red, heat and salt water resistant

Reinforcement high temperature resistant plies

Cover smooth, blue silicone rubber, abrasion, ageing, ozone, heat and paraffin oil resistant, glossy cover

Marking TUDERTECHNICA TUSIL MARINE

TUDERTECHNICA TUSIL MARINE

TECHNICAL CHARACTERISTICS

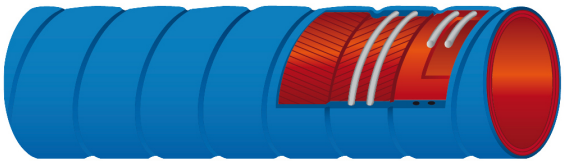
Temperature range -60°C / +200°C (-76°F / +392°F)

Norm SAE J2006 TYPE R1
ISO 13363:2004 – Type 1 class B
ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Length		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mt]	[ft]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	28	1,10	40	130	13	195	39	585	0,40	0,27	-	-
25	1,00	34	1,34	40	130	10	150	30	450	0,50	0,34	-	-
28	1,10	37	1,46	40	130	10	150	30	450	0,55	0,37	-	-
32	1,25	41	1,61	40	130	8	120	24	360	0,62	0,42	-	-
35	1,38	44	1,73	40	130	8	120	24	360	0,67	0,45	-	-
38	1,50	47	1,85	40	130	7	105	21	315	0,72	0,48	-	-
42	1,65	51	2,00	40	130	7	105	21	315	0,78	0,52	-	-
45	1,77	54	2,13	40	130	6	90	18	270	0,84	0,56	-	-
48	1,90	57	2,24	40	130	6	90	18	270	0,89	0,60	-	-
51	2,00	60	2,36	40	130	5	75	15	225	0,94	0,63	-	-
60	2,36	69	2,72	40	130	5	75	15	225	1,09	0,73	-	-
63,5	2,50	72,5	2,85	40	130	4	60	12	180	1,15	0,77	-	-
67	2,64	76	3,00	40	130	4	60	12	180	1,20	0,80	-	-
70	2,76	79	3,11	40	130	4	60	12	180	1,26	0,84	-	-
73	2,87	82	3,23	40	130	4	60	12	180	1,30	0,87	-	-
76	3,00	85	3,35	40	130	4	60	12	180	1,36	0,91	-	-
90	3,54	99	3,90	40	130	3	45	9	135	1,59	1,07	-	-
102	4,00	111	4,37	40	130	3	45	9	135	1,80	1,21	-	-
114	4,49	123	4,84	40	130	2	30	6	90	1,99	1,33	-	-
127	5,00	136	5,35	40	130	2	30	6	90	2,22	1,49	-	-
140	5,51	149	5,87	12	39	2	30	6	90	2,43	1,63	-	-
152	6,00	161	6,34	12	39	2	30	6	90	2,65	1,78	-	-
203	8,00	212	8,35	12	39	1	15	3	45	3,50	2,35	-	-
254	10,00	263	10,35	12	39	1	15	3	45	4,34	2,91	-	-
305	12,00	318	12,52	12	39	1	15	3	45	8,27	5,54	-	-
350	13,78	365	14,37	12	39	1	15	3	45	10,35	6,93	-	-
404	15,91	419	16,50	12	39	1	15	3	45	11,89	7,97	-	-

Data refer to ambient temperature (20°C); we recommend a reduction of 20% working pressure for every 100°C of temperature increase. Other diameters, wall thickness and pressure only on specific request.

TUSIL MARINE OND



Used as marine main engine exhaust, generator exhaust, engine coolant circulation, engine intake and generator intake.

DESCRIPTION

Tube silicone, red, heat and salt water resistant

Reinforcement high temperature resistant plies, steel wire helices

Cover wide corrugated, blue silicone rubber, abrasion, ageing, ozone, heat and paraffin oil resistant, glossy cover

Marking TUDERTECHNICA TUSIL MARINE OND

TUDERTECHNICA TUSIL MARINE OND

TECHNICAL CHARACTERISTICS

Temperature range -60°C / +200°C (-76°F / +392°F)

Vacuum 450 mmHg (17,7 inHg)

Norm SAE J2006 TYPE R2
ISO 13363:2004 Type 2 class B
ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Length		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mt]	[ft]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	-	-	40	130	8	120	24	360	0,48	0,32	90	3,54
25	1,00		-	40	130	7	105	21	315	0,60	0,40	100	3,94
28	1,10	-	-	40	130	7	105	21	315	0,66	0,44	105	4,13
32	1,25	-	-	40	130	6	90	18	270	0,70	0,47	115	4,53
35	1,38	-	-	40	130	5	75	15	225	0,80	0,54	125	4,92
38	1,50	-	-	40	130	5	75	15	225	0,82	0,55	130	5,12
42	1,65	-	-	40	130	5	75	15	225	1,00	0,67	135	5,31
45	1,77	-	-	40	130	4	60	12	180	1,06	0,71	140	5,51
48	1,90	-	-	40	130	4	60	12	180	1,12	0,75	150	5,91
51	2,00	-	-	40	130	4	60	12	180	1,18	0,79	160	6,30
60	2,36	-	-	40	130	3	45	9	135	1,36	0,91	165	6,50
63,5	2,50	-	-	40	130	3	45	9	135	1,63	1,09	170	6,69
67	2,64	-	-	40	130	3	45	9	135	1,70	1,14	175	6,89
70	2,76	-	-	40	130	3	45	9	135	1,77	1,19	180	7,09
73	2,87	-	-	40	130	3	45	9	135	1,85	1,24	200	7,87
76	3,00	-	-	40	130	3	45	9	135	1,92	1,29	220	8,66
90	3,54	-	-	40	130	2	30	6	90	3,21	2,15	250	9,84
102	4,00	-	-	40	130	2	30	6	90	3,62	2,43	280	11,02
115	4,50	-	-	40	130	2	30	6	90	4,02	2,69	290	11,42
127	5,00	-	-	40	130	2	30	6	90	4,43	2,97	300	11,81
140	5,51	-	-	12	39	2	30	6	90	5,69	3,81	360	14,17
152	6,00	-	-	12	39	2	30	6	90	6,04	4,05	400	15,75
203	8,00	-	-	12	39	2	30	6	90	10,87	7,28	450	17,72
254	10,00	-	-	12	39	2	30	6	90	14,81	9,92	1200	47,24
305	12,00	-	-	12	39	2	30	6	90	18,55	12,43	1450	57,09
350	13,78	-	-	12	39	2	30	6	90	21,42	14,35	1750	68,90
404	15,91	-	-	12	39	1	15	3	45	26,55	17,79	2000	78,74

Data refer to ambient temperature (20°C); we recommend a reduction of 20% working pressure for every 100°C of temperature increase. Other diameters, wall thickness and pressure only on specific request.

TUSIL CRYO

Delivery of dry ice and extremely low temperature air. Temperature range: -85°C / +200°C (-121°F / +392°F).

DESCRIPTION

Tube silicone, red

Reinforcement synthetic plies

Cover smooth, red silicone, abrasion, ageing, ozone and paraffin oil resistant, cloth finish, on request glossy cover

Marking TUDERTECHNICA TUSIL CRYO

TUDERTECHNICA TUSIL CRYO

TECHNICAL CHARACTERISTICS

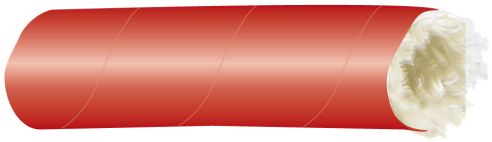
Temperature range -85°C / +200°C (-121°F / +392°F)

Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
16	0,63	27	1,06	-	-	14	210	42	630	0,47	0,31	-	-
19	0,75	30	1,18	-	-	13	195	39	585	0,53	0,35	-	-
22	0,87	32	1,26	-	-	12	180	36	540	0,52	0,35	-	-
25	1,00	35	1,38	-	-	11	165	33	495	0,57	0,38	-	-
28	1,10	38	1,50	-	-	10	150	30	450	0,63	0,42	-	-

Data refer to ambient temperature (20°C); we recommend a reduction of 20% working pressure for every 100°C of temperature increase. Other diameters, wall thickness and pressure only on specific request.

TUSIL GLASS



For bundling hoses, lines, tubes and cables in extreme environments. The tricotee construction gives the fire sleeve high flexibility and elasticity making it an easy way to cover any product that needs to be protected. Its smooth cover prevents the melting drops, scum and welding slags to deposit in between the fiberglass fibers. Silicone rubber protects the sleeve from abrasion, making it easier for cleaning and does not let the micro-fibers disperse. The physical structure and raw materials used give the sleeve a high degree of electrical insulation.

DESCRIPTION

Tube tricotee fiberglass sleeve silicone coated

Marking TUDERTECHNICA TUSIL GLASS

TUDERTECHNICA TUSIL GLASS

TECHNICAL CHARACTERISTICS

Temperature range fiberglass sleeve up to +550°C (+1022°F)
silicone cover -60°C / +250°C (-76°F / +482°F)

Norm ISO 1307 for dimensional tolerances.

Length 10 mt (32,5 ft)

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
12	0,46	18,5	0,73	-	-	-	-	-	-	0,13	0,09	-	-
16	0,63	22,5	0,89	-	-	-	-	-	-	0,17	0,11	-	-
19	0,75	25,5	1,01	-	-	-	-	-	-	0,19	0,13	-	-
22	0,87	28,5	1,12	-	-	-	-	-	-	0,22	0,15	-	-
25	1,00	31,5	1,24	-	-	-	-	-	-	0,24	0,16	-	-
28	1,10	34,5	1,36	-	-	-	-	-	-	0,27	0,18	-	-
32	1,25	38,5	1,52	-	-	-	-	-	-	0,30	0,20	-	-
35	1,38	41,5	1,63	-	-	-	-	-	-	0,32	0,21	-	-
38	1,50	44,5	1,75	-	-	-	-	-	-	0,35	0,23	-	-
41	1,61	47,5	1,87	-	-	-	-	-	-	0,37	0,25	-	-
44	1,73	50,5	1,99	-	-	-	-	-	-	0,40	0,27	-	-
51	2,00	57,5	2,26	-	-	-	-	-	-	0,46	0,31	-	-
57	2,24	63,5	2,50	-	-	-	-	-	-	0,51	0,34	-	-
63,5	2,50	70,0	2,76	-	-	-	-	-	-	0,56	0,38	-	-
70	2,76	76,5	3,01	-	-	-	-	-	-	0,61	0,41	-	-

Other sizes avaible on request.

On request we can supply: fiberglass sleeve up to +750° C (+1382°F) temperature resistant.
fiberglass sleeve up to +1000°C (+1832°F) temperature resistant.

MARMOTECH™

Suction and delivery hose suitable for abrasive materials like coal dust, sand, stone chips in dredging operations. Can be assembled with reusable aluminum coupling system.

DESCRIPTION

Tube* NR/SBR, black, conductive, abrasion resistant

Reinforcement synthetic plies, steel wire helix, on request a/s copper wires to discharge static electricity

Cover corrugated, CR, black, conductive, abrasion, ageing, ozone and oil resistant, cloth finish

Marking TUDERTECHNICA MARMOTECH™

TUDERTECHNICA MARMOTECH™

TECHNICAL CHARACTERISTICS

Temperature range -40°C / +70°C (-40°F / +158°F)

Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Length		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[mt]	[ft]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	70	2,76	675	26,6	40	130	10	150	30	450	3,48	2,33	200	7,87
51	2,00	76	3,00	675	26,6	40	130	10	150	30	450	3,44	2,30	270	10,63
76	3,00	115	4,53	675	26,6	40	130	10	150	30	450	7,36	4,93	380	14,96
102	4,00	134	5,28	675	26,6	40	130	10	150	30	450	8,31	5,57	550	21,65
127	5,00	163	6,42	675	26,6	40	130	10	150	30	450	11,39	7,63	700	27,56
152	6,00	190	7,48	675	26,6	40	130	10	150	30	450	13,79	9,24	900	35,43
203	8,00	242	9,53	525	20,7	12	39	10	150	30	450	20,29	13,59	1400	55,12
254	10,00	293	11,54	525	20,7	12	39	10	150	30	450	23,12	15,49	1800	70,87
305	12,00	350	13,78	375	14,8	12	39	10	150	30	450	29,37	19,68	2400	94,49
355	14,00	410	16,14	375	14,8	12	39	10	150	30	450	38,53	25,82	2900	114,17
404	16,00	460	18,11	375	15,8	12	39	10	150	30	450	48,41	32,43	3400	133,86

Other diameters, wall thickness and pressure only on specific request.
Data refer to ambient temperature (20°C).

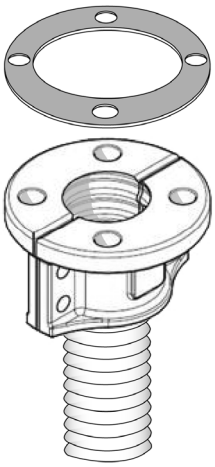
on request available tan NR tube, black EPDM tube and white food grade compounds tube

ALUMINUM COUPLINGS

Reusable aluminum coupling system, suitable to be fitted to MARMOTECH™ and STEELBLAST hoses, including:

- Aluminum semi-flanges according to UNI EN 1092-1 PN 10 (ex UNI 2277)
- Flat black SBR gasket
- Bolts, nuts and washers for the semi-flanges connection

Easy to handle and to install: special tools and trained personnel staff are not required. Designed with self-blocking domed cup nuts to facilitate the semi-flanges connection.



Nominal Size		Couplings dimensions							Nipple length		Appr. weight	
		Holes number	Holes diameter		Bolt circle		Outside flange diameter					
[mm]	[in]		[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[kg]	[lbs]
40	1,50	4	18	0,71	110	4,33	150	5,91	86	3,39	1,3	2,9
50	2,00	4	18	0,71	125	4,92	165	6,50	86	3,39	1,6	3,5
75	3,00	8	18	0,71	160	6,30	200	7,87	88	3,46	2,1	4,6
100	4,00	8	18	0,71	180	7,09	220	8,66	105	4,13	2,8	6,2
125	5,00	8	18	0,71	210	8,27	250	9,84	110	4,33	3,6	7,9
150	6,00	8	22	0,87	240	9,45	285	11,22	120	4,72	4,8	10,6
200	8,00	8	22	0,87	295	11,61	340	13,39	155	6,10	7,8	17,2
250	10,00	12	22	0,87	350	13,78	395	15,55	175	6,89	9,5	20,9
300	12,00	12	22	0,87	400	15,75	445	17,52	200	7,87	14	30,9
350	14,00	16	22	0,87	460	18,11	505	19,88	210	8,27	17	37,5
400	16,00	16	26	1,02	515	20,28	565	22,24	220	8,66	22	48,5

STEELBLAST

Suction and delivery hose suitable for extremely abrasive bulk materials like coal dust, sand, stone chips. Can be assembled with reusable aluminum coupling system (see page 71).

DESCRIPTION

Tube polyurethane, transparent

Reinforcement synthetic plies, steel wire helix, a/s copper wires to discharge static electricity

Cover corrugated, CR, black, conductive, abrasion, ageing, ozone and oil resistant, cloth finish

Marking TUDERTECHNICA STEELBLAST

TUDERTECHNICA STEELBLAST

TECHNICAL CHARACTERISTICS

Temperature range -30°C / +100°C (-22°F / +212°F)

Vacuum 675 mmHg (26,6 inHg)

Norm ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	70	2,76	10	150	30	450	3,71	2,49	200	7,87
51	2,00	76	3,00	10	150	30	450	3,60	2,41	270	10,63
76	3,00	115	4,53	10	150	30	450	8,16	5,47	380	14,96
102	4,00	134	5,28	10	150	30	450	8,92	5,98	550	21,65

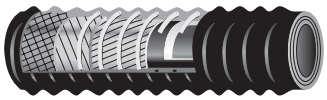
Other diameters, wall thickness and pressure only on specific request.
Data refer to ambient temperature (20°C).

DREDGING HOSES

DRAGATELA

Discharge hose suitable for the delivery of abrasive material mixed with water. Especially used in the dredging system as connection between pump and suction pipe, discharging the material collected from the dredger. It can be manufactured in service lengths with enlarged cuffs, vulcanised flanges, vulcanised flanges rubber protected and rubber flanges.

DRAGABRASIVO A

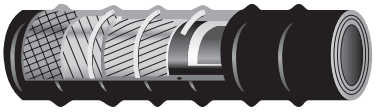


Suction hose suitable for abrasive material mixed with water. Especially used in the dredging system as connection between the suction pipes and pump. It can be manufactured in service lengths with enlarged cuffs, vulcanized flanges, vulcanized flanges rubber protected or rubber flanges.

DRAGABRASIVO M

Suction and discharge hose suitable for abrasive material mixed with water. Especially used in the dredging system as connection between the suction pipes and pump, where a narrow bending radius without crushing is necessary. The hose can be manufactured in service lengths with enlarged ends, vulcanized flanges, vulcanized flanges rubber protected or rubber flanges.

ANELLATO



Dredging hose used as the flexible connection between the vacuum pump and metal jib allowing the auger mechanism to operate on the sea bed. Normally manufactured in service lengths provided with soft or enlarged ends, vulcanised flanges, vulcanised flanges rubber protected and rubber flanges.

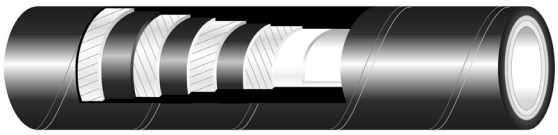
IDROCICLONE

Suction and discharge hose suitable for abrasive material mixed with water. Especially used in crushing plants, cleaning and sorting plants, storage and transport of slurry. The hose is readily provided with aluminum semi-flanges UNI 2277 PN 10 to be fixed with bolts to the external side of the flange.

COUPLINGS

Aluminium flanges are suitable to be fitted to the external cover of our IDROCICLONE hose type.
Fitting is easy and fast: it is just necessary to join the two semi-flanges by fixing the rubber hose inside and attaching the bolts. Once the two semi-flanges are fixed, the resistance of the system is assured by internal rounded ribs, which are located on the internal part of the flange and which can be fixed on the hose cover without damaging the hose surface.
With this fitting system, the abrasive material does not get in contact with the metal couplings.
In this way, there is no wear on the couplings and they can be used again even if the hose is worn out. Since the aluminium is a light metal, a better hose handling is granted.

PERISTALTICO



Delivery hose suitable for a wide range of products in peristaltic pumps.

According to the different application, the hose can be designed for:

- Abrasive materials
- Food liquids
- Acids at low concentration

DESCRIPTION

Tube	rubber according to the application
Reinforcement	special synthetic plies
Cover	smooth, black, abrasion, ageing and ozone resistant, cloth finish

- Dimensions: I.D. from 10mm to 127mm
- Temperature range: depending on the fluid conveyed
- On request available with grinded cover
- Normally supplied in service lengths
- On request can be manufactured with enlarged ends

COUPLINGS

TUDERTECHNICA hoses can be used with a wide range of different couplings for food, chemical, pharmaceutical, cosmetic and industrial application.

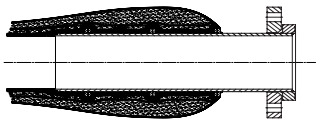
ENDS/FITTINGS

Tudertechnica hoses can be manufactured with the following ends:

Soft ends cuffs without metal wire permitting a better connection between the hose and the pipe using clamps or safety.

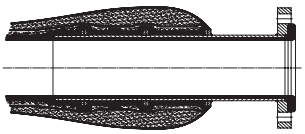
Enlarged ends cuffs to achieve a better connection between the pipe and the hose to avoid turbulance with the material being conveyed and to reduce the wear of the rubber tube and the metal pipe.

Vulcanized fixed flanges.

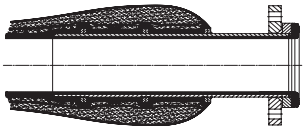


Vulcanized swivel flanges.

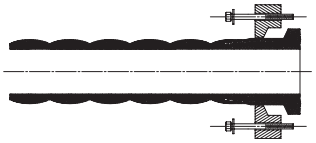
THE BELOW MENTIONED SOLUTIONS ALLOW A BETTER PROTECTION OF THE NIPPLE WHICH IS NOT IN CONTACT WITH THE MEDIUM BEING CONVOYED.



Vulcanized built in rubber protected nipple and fixed flanges.
The rubber cover the nipple to form a seal like a gasket.

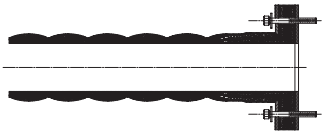


Vulcanized built in rubber protected nipple and swivel flanges.
The rubber cover the nipple to form a seal like a gasket.



Vulcanized beaded ends and split flanges; flexible flanges connection suitable to support medium duty application.

Vulcanized rubber flanges which can be provided with swivel semi-flanges; flexible flanges connection, suitable to assure sealing and flexibility even under heavy working conditions.



Vulcanized rubber flanges with metal flanges “sandwich”; flexible flange connection, suitable to assure sealing and flexibility under the heaviest working conditions.

FLUOROPOLYMERS CHEMICAL RESISTANCE *

	teflon®	
	PTFE	PFA
Acetaldehyde	E	E
Acetamide, Sat.	E	E
Acetic Acid, 5%	E	E
Acetic Acid, 50%	E	E
Acetone	E	E
Acetonitrile	E	E
Acrylonitrile	E	E
Adipic Acid	E	E
Alanine	E	E
Allyl Alcohol	E	E
Aluminum Hydroxide	E	E
Aluminum Salts	E	E
Amino Acids	E	E
Ammonio	E	E
Ammonium Acetate, Sat.	E	E
Ammonium Glycolate	E	E
Ammonium Hydroxide, 5%	E	E
Ammonium, Hydroxide, 30%	E	E
Ammonium Oxalate	E	E
Ammonium Salts	E	E
n-Amyl Acetate	E	E
Amyl Chloride	E	E
Aniline	E	E
Benzaldehyde	E	E
Benzene	E	E
Benzoic Acid, Sat.	E	E
Benzyl Acetate	E	E
Benzyl Alcohol	E	E
Bromine	E	E
Bromobenzene	E	E
Bromoform	E	E
Butadiene	E	E
n-Butyl Acetate	E	E
n-Butyl Alcohol	E	E
sec-Butyl Alcohol	E	E
tert-Butyl Alcohol	E	E
Butyric Acid	E	E
Calcium Hydroxide, Conc.	E	E
Calcium Hypochlorite, Sat.	E	E
Carbazole	E	E
Carbon Disulfide	E	E
Carbon Tetrachloride	E	E
Cedarwood Oil	E	E
Cellosolve Acetate	E	E
Chlorine, 10% in Air	E	E
Chlorine, 10% (Moist)	E	E
Chloroacetic Acid	E	E
p-Chloroacetophenone	E	E
Chloroform	E	E
Chromic Acid, 10%	E	E
Chromic Acid, 50%	E	E

	teflon®	
	PTFE	PFA
Cinnamon Oil	E	E
Citric Acid, 10%	E	E
Cresol	E	E
Cyclohexane	E	E
Decalin	E	E
o-Dichlorobenzene	E	E
p-Dichlorobenzene	E	E
Diethyl Benzene	E	E
Diethyl Ether	E	E
Diethyl Ketone	E	E
Diethyl Malonate	E	E
Diethylene Glycol	E	E
Diethylene Glycol Ethyl Ether	E	E
Dimethyl Formamide	E	E
Dimethylsulfoxide	E	E
1,4-Dioxane	E	E
Dipropylene Glycol	E	E
Ether	E	E
Ethyl Acetate	E	E
Ethyl Alcohol (absolute)	E	E
Ethyl Alcohol, 40%	E	E
Ethyl Benzene	E	E
Ethyl Benzoate	E	E
Ethyl Butyrate	E	E
Ethyl Chloride	E	E
Ethyl Cyanoacetate	E	E
Ethyl Lactate	E	E
Ethylene Chloride, Liquid	E	E
Ethylene Glycol	E	E
Ethylene Glycol Methyl Ether	E	E
Ethylene Oxide	E	E
Fluorides	E	E
Fluorine	A	A
Formaldehyde, 10%	E	E
Formaldehyde, 40%	E	E
Formic Acid, 3%	E	E
Formic Acid, 50%	E	E
Formic Acid, 98-100%	E	E
Fuel Oil	E	E
Gasoline	E	E
Glacial Acetic Acid	E	E
Glycerin	E	E
n-Heptane	E	E
Hexane	E	E
Hydrochloric Acid, 1-5%	E	E
Hydrochloric Acid, 20%	E	E
Hydrochloric Acid, 35%	E	E
Hydrofluoric Acid, 4%	E	E
Hydrofluoric Acid, 48%	E	E
Hydrogen Peroxide, 3%	E	E
Hydrogen Peroxide, 30%	E	E

FLUOROPOLYMERS CHEMICAL RESISTANCE *

	teflon®	
	PTFE	PFA
Hydrogen Peroxide, 90%	E	E
Isobutyl Alcohol	E	E
Isopropyl Acetate	E	E
Isopropyl Alcohol	E	E
Isopropyl Benzene	E	E
Kerosene	E	E
Lactic Acid, 3%	E	E
Lactic Acid, 85%	E	E
Methoxyethyl Oleate	E	E
Methyl Alcohol	E	E
Methyl Ethyl Ketone	E	E
Methyl Isobutyl Ketone	E	E
Methyl Propyl Ketone	E	E
Methylene Chloride	E	E
Minerai Oil	E	E
Nitric Acid, 1-10%	E	E
Nitric Acid, 50%	E	E
Nitric Acid, 70%	E	E
Nitrobenzene	E	E
n-Octane	E	E
Orange Oil	E	E
Ozone	E	E
Perchloric Acid	A	A
Perchloroethylene	E	E
Phenol, Crystals	E	E
Phosphoric Acid, 1-5%	E	E
Phosphoric Acid, 85%	E	E
Pine Oil	E	E
Potassium Hydroxide, 1%	E	E
Potassium Hydroxide, Conc.	E	E
Propone Gas	E	E
Propylene Glycol	E	E
Propylene Oxide	E	E
Resorcinol, Sat.	E	E
Resorcinol, 5%	E	E
Salicylaldehyde	E	E
Salicylic Acid, Powder	E	E
Salicylic Acid, Sat.	E	E
Salt Solutions, Metallic	E	E
Silver Acetate	E	E
Silver Nitrate	E	E
Sodium Acetate, Sat.	E	E
Sodium Hydroxide, 1%	E	E
Sodium Hydroxide,50% to Sat.	E	E
Sodium Hypochlorite, 15%	E	E
Stearic Acid, Crystals	E	E
Sulfuric Acid, 1-6%	E	E
Sulfuric Acid, 20%	E	E
Sulfuric Acid, 60%	E	E
Sulfuric Acid, 98%	E	E
Sulfuric Dioxide, Liq., 46psi	E	E
Sulfuric Dioxide, wet or dry	E	E
Sulfur Salts	E	E
Tartaric Acid	E	E
Tetrahydrofuran	E	E
Thionyl Chloride	E	E
Toluene	E	E
Tributyl Citrate	E	E
Trichloroethane	E	E
Trichloroethylene	E	E
Triethylene Glycol	E	E
Tripropylene Glycol	E	E
Turpentine	E	E
Undecyl Alcohol	E	E
Urea	E	E
Vinylidene Chloride	E	E
Xylene	E	E
Zinc Stearate	E	E

Legend

E EXCELLENT RESISTANCE

A GOOD RESISTANCE

*

The present tabulation is based on tests and on generally available sources, and believed to be reliable.
However must be used as a guidance only since it does not take in consideration all variable that may be encountered in actual use, such as and not limited to: temperature, concentration, pressure, duration of exposure, stability of the fluid and possible contamination.
All application should always be tested: the compound should always be tested with the chemical it is going to handle.
Please note: all data based on 21 °C (70 °F) unless noted.

POLYMERS CHEMICAL RESISTANCE CHART *

TUDERTECHNICA

		NATURAL RUBBER	SBR	CHLOROPRENE	NITRILE	BUTYL	hypalon®	EPDM	EPM	silicone	viton®	CROSS-LINKED POLYETHYLENE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE	teflon®
		NR	SBR	CR	NBR	IIR	CSM	EPDM	EPM	VMQ	FKM	XLPE	UHMWPE	PTFE
Acetic acid, duluite, 10%		B	C	C	C	A	C	A	A	B	B	A	A	A
Acetic acid glacial		C	X	X	X	B	C	B	A	C	X	A	A	A
Acetic acid anhydride		C	C	B	B	B	A	I	B	I	X	A	A	A
Acetone		B	C	B	X	A	B	A	A	X	X	A	A	A
Acetylene		A	A	B	A	A	B	A	A	C	A	A	A	A
Air	68°F (20°C)	A	A	A	A	A	A	A	A	A	A	A	A	A
Air	150°F (65°C)	A	A	A	A	A	A	A	A	A	I	A	A	A
Aluminium chloride	150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A
Aluminium fluoride	150°F (65°C)	A	A	A	A	A	A	A	A	B	I	A	A	A
Aluminium sulfate	150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A
Alums	150°F (65°C)	A	A	A	A	A	A	A	A	A	I	A	A	A
Ammonia gas, anhydrous		X	X	X	X	X	X	X	X	X	X	X	X	X
Ammonia 10%water solution		B	B	B	A	A	A	A	A	A	A	A	A	A
Ammonia 30%water solution		B	B	B	A	A	B	A	A	C	A	A	A	A
Ammonium chloride		A	A	A	A	A	A	A	A	C	A	A	A	A
Ammonium hydroxide		C	B	B	B	A	A	A	A	C	B	A	A	A
Ammonium nitrate		A	A	A	A	A	A	A	A	A	A	A	A	A
Ammonium phosphate monobasic		A	A	A	A	A	A	A	A	A	A	A	A	A
Ammonium phosphate dibasic		A	A	A	A	A	A	A	A	A	A	A	A	A
Ammonium phosphate tribasic		A	A	A	A	A	A	A	A	A	A	A	A	A
Ammonium sulfate		A	A	A	A	A	A	A	A	A	A	A	A	A
Amyl acetate		B	X	X	X	B	X	A	B	X	X	A	A	A
Amyl alcohol		A	A	A	A	A	A	A	A	X	A	A	A	A
Aniline, Aniline oil		X	X	C	X	A	X	C	B	X	A	A	A	A
Aniline, dyes		B	B	B	X	A	B	C	A	X	B	A	A	A
Asphalt		X	X	B	B	X	B	X	X	I	A	A	A	A
Barium chloride	150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A
Barium hydroxide	150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A
Barium sulfide	150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A
Beer		A	A	A	A	A	A	A	A	A	A	A	A	A
Beet sugar liquors		A	A	A	A	A	A	A	A	A	A	A	A	A

*POLYMERS CHEMICAL RESISTANCE CHART **

TUDERTECHNICA

	NATURAL RUBBER	SBR	CHLOROPRENE	NITRILE	BUTYL	hypalon®	EPDM	EPM	silicone	viton®	CROSS-LINKED POLYETHYLENE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE	teflon®
	NR	SBR	CR	NBR	IIR	CSM	EPDM	EPM	VMQ	FKM	XLPE	UHMWPE	PTFE
Benzene, Benzol	X	X	X	X	X	X	X	X	X	A	A	A	A
Benzine, petroleum ether	I	I	I	I	I	I	I	I	X	A	I	B	A
Benzine, petroleum naphtha	X	X	C	A	X	B	X	X	X	A	A	B	A
Black sulfate liquor	A	A	A	A	A	A	A	A	A	I	A	A	A
Blast furnace gas	C	C	A	C	C	C	C	C	A	A	A	A	A
Borax	A	A	A	A	A	A	A	A	B	A	A	A	A
Boric acid	A	A	A	A	A	A	A	A	A	A	A	A	A
Bromine	X	X	X	X	X	C	X	X	X	A	X	X	A
Butane	X	X	A	A	X	A	X	X	X	A	A	A	A
Butyl acetate	X	X	X	X	B	X	B	B	X	X	A	A	A
Butyl alcohol, Butanol	A	A	A	A	A	A	A	A	C	A	A	A	A
Calcium bisulfate	C	C	A	A	B	A	B	A	C	A	A	A	A
Calcium chloride	A	A	A	A	A	A	A	A	A	A	A	A	A
Calcium hydroxide	A	A	A	A	A	A	A	A	A	A	A	A	A
Calcium hypochlorite	X	X	X	X	A	B	A	A	C	A	A	A	A
Caliche liquors	A	A	A	A	A	A	A	A	B	A	A	A	A
Cane sugar liquors	A	A	A	A	A	A	A	A	A	A	A	A	A
Carbolic acid, phenol	C	C	C	C	C	C	A	A	X	A	A	A	A
Carbon dioxide, dry-wet	A	A	A	A	A	A	A	A	A	A	A	A	A
Carbon disulfide	X	X	X	X	X	X	X	X	X	A	C	C	A
Carbon monoxide 140°F (60°C)	C	C	C	C	C	B	C	A	A	A	A	A	A
Carbon tetrachloride	X	X	X	C	X	X	X	X	X	A	A	C	A
Castor oil	A	A	A	A	A	A	A	A	A	A	A	A	A
Cellosolve acetate	B	B	X	X	A	I	A	A	X	X	A	A	A
CFC-12	X	X	A	A	B	I	B	C	I	C	I	I	A
China wood oil, tung oil	X	X	B	A	A	B	A	C	X	A	A	A	A
Chlorine, dry/wet	X	X	X	X	X	C	X	X	X	B	C	X	A
Chlorinated solvents	X	X	X	X	X	X	X	X	X	A	A	B	A
Chloroacetic acid	X	C	C	C	X	A	I	A	I	X	A	A	A
Chlorosulfonic acid	X	X	C	C	X	X	X	X	X	X	C	X	A
Chromic acid	X	X	X	X	C	A	I	I	C	A	A	C	A

POLYMERS CHEMICAL RESISTANCE CHART *

TUDERTECHNICA

		NATURAL RUBBER	SBR	CHLOROPRENE	NITRILE	BUTYL	hypalon®	EPDM	EPM	silicone	viton®	CROSS-LINKED POLYETHYLENE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE	teflon®
		NR	SBR	CR	NBR	IIR	CSM	EPDM	EPM	VMQ	FKM	XLPE	UHMWPE	PTFE
Citric acid		A	A	A	B	A	A	A	A	A	A	A	A	A
Coke oven gas		X	X	X	X	X	A	I	I	B	A	A	X	A
Copper chloride	150°F (65°C)	C	A	B	A	A	B	A	A	A	A	A	A	A
Copper sulfate	150°F (65°C)	C	A	A	A	B	A	A	A	A	A	A	A	A
Corn oil		X	C	B	A	A	B	C	C	A	A	A	A	A
Cottonseed oil		X	C	B	A	A	B	C	C	A	A	A	A	A
Creosote, coal tar		X	X	B	A	X	B	X	X	C	A	A	A	A
Creosote, coal tar wood		X	X	B	A	X	I	X	X	X	A	A	A	A
Creosols, cresylic acid		C	X	X	C	C	B	X	X	I	A	A	B	A
Dichlorobenzene		X	X	X	X	X	X	X	X	X	A	X	C	A
Dichloroethylene		X	X	X	X	X	X	X	X	X	A	C	X	A
Diesel fuel		X	X	C	A	X	B	X	X	X	A	B	B	A
Diethanolamine 20%		C	X	I	I	A	X	A	A	X	X	A	A	A
Diethylamine		B	B	B	C	B	C	B	B	B	X	A	A	A
Diisopropylamine		B	I	I	B	I	C	I	I	I	I	A	A	A
Dioctylphthalate		X	X	X	X	B	X	B	A	X	A	A	A	A
Ethers		X	X	X	X	X	X	C	B	X	X	A	B	A
Ethyl acetate		X	X	X	X	B	X	B	A	B	X	A	A	A
Ethyl alcohol		A	A	A	A	A	A	A	A	A	A	A	A	A
Ethyl cellulose		B	B	B	B	B	I	B	B	C	X	A	A	A
Ethyl chloride		X	X	X	X	B	X	C	C	C	A	A	C	A
Ethyl glycol		A	A	A	A	A	A	A	A	A	A	A	A	A
Ferric chloride	150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A
Ferric sulfate	150°F (65°C)	A	A	A	A	A	A	A	A	B	A	A	A	A
Formaldehyde		B	B	B	C	A	A	A	A	B	X	A	A	A
Formic acid		A	A	C	B	A	A	A	A	C	X	A	A	A
Fuel oil		X	X	A	A	X	B	X	X	X	A	A	A	A
Furfural		X	C	C	X	A	B	C	B	X	X	A	I	A

POLYMERS CHEMICAL RESISTANCE CHART *

TUDERTECHNICA	NATURAL RUBBER	SBR	CHLOROPRENE	NITRILE	BUTYL	hypalon®	EPDM	EPM	silicone	viton®	CROSS-LINKED POLYETHYLENE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE	teflon®
	NR	SBR	CR	NBR	IIR	CSM	EPDM	EPM	VMQ	FKM	XLPE	UHMWPE	PTFE
Gasoline, unleaded	X	X	X	A	X	C	X	X	X	A	A	B	A
Gasoline + MTBE	X	X	X	A	X	C	X	X	X	A	A	B	A
Gasoline Hi Test + MTBE	X	X	X	A	X	C	X	X	X	A	A	B	A
Gelatin	A	A	A	A	A	A	A	A	A	A	A	A	A
Glucose	A	A	A	A	A	A	A	A	A	A	A	A	A
Glue	B	B	A	A	B	A	A	A	A	A	A	A	A
Glycerine, glycerol	A	A	A	A	A	A	A	A	A	A	A	A	A
Green sulfate liquor	A	A	A	A	A	A	A	A	A	A	A	A	A
HFC-134A	B	X	A	A	A	B	A	A	I	X	A	I	A
Hidraulic fluids: Petroleum	X	X	B	A	X	B	X	X	C	A	I	A	A
Hidraulic fluids: Phosphate ester alkyl	X	X	C	X	A	X	A	A	X	I	I	I	A
Hidraulic fluids: Phosphate ester aryl	X	X	X	X	C	X	C	C	X	I	I	I	A
Hidraulic fluids: Phosphate ester blends	X	X	X	X	X	X	C	C	X	A	I	I	A
Hidraulic fluids: Silicate ester	X	X	C	C	X	C	X	X	X	A	I	I	A
Hidraulic fluids: Water glycol	A	A	A	A	A	A	A	A	A	A	I	A	A
Hydrobromic acid	C	X	C	C	A	A	A	A	X	A	I	A	A
Hydrochloric acid	B	B	B	C	B	B	B	A	X	A	A	A	A
Hydrocyanic acid	B	B	C	B	C	A	C	B	B	A	A	A	A
Hydrofluoric acid	X	X	X	X	C	A	B	B	X	X	A	B	A
Hydrofluosilicic acid	A	B	B	B	A	I	A	A	I	A	I	A	A
Hydrogen gas 140°F (60°C)	B	A	A	A	A	I	A	A	C	A	A	A	A
Hydrogen peroxide	X	X	C	C	C	C	C	B	A	A	I	C	A
Hydrogen sulfide, dry	C	C	B	C	A	A	A	A	X	X	A	A	A
Hydrogen sulfide, wet	C	C	B	C	A	A	A	A	X	X	A	A	A
Isobutyl alcohol	A	A	A	B	A	A	A	A	A	A	A	A	A
Isopropyl alcohol	A	A	A	B	A	A	A	A	A	A	A	A	A
Isooctane	X	X	B	A	X	A	X	X	X	A	A	A	A
Kerosene	X	X	B	A	X	C	X	X	X	A	A	A	A

POLYMERS CHEMICAL RESISTANCE CHART *

TUDERTECHNICA

		NATURAL RUBBER	SBR	CHLOROPRENE	NITRILE	BUTYL	hypalon®	EPDM	EPM	silicone	viton®	CROSS-LINKED POLYETHYLENE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE	teflon®
		NR	SBR	CR	NBR	IIR	CSM	EPDM	EPM	VMQ	FKM	XLPE	UHMWPE	PTFE
Lacquers		X	X	X	X	C	X	X	X	X	X	A	B	A
Lacquers solvents		X	X	X	X	C	X	X	X	X	X	A	B	A
Lactic acid		C	C	C	C	C	A	C	B	A	A	A	A	A
Linseed oil		C	C	B	A	A	A	A	B	A	A	A	A	A
Lubricating oil, crude		X	X	B	A	X	B	X	X	C	A	A	A	A
Lubricating oil, refined		X	X	B	A	X	B	X	X	C	A	A	A	A
Magnesium chloride	150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A
Magnesium hydroxide	150°F (65°C)	A	B	B	B	A	A	A	A	B	A	A	A	A
Magnesium sulfate	150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A
Mercuric chloride		B	B	C	B	A	A	A	A	A	A	A	A	A
Mercury		A	A	A	A	A	A	A	A	A	A	A	A	A
Methyl alcohol, methanol		A	A	A	A	A	A	A	A	A	B	A	A	A
Methyl chloride		X	X	X	X	C	X	X	C	X	B	C	C	A
Methyl ethyl ketone		X	X	X	X	B	X	A	A	X	X	A	A	A
Methyl isopropyl ketone		X	X	X	X	B	X	C	C	C	X	A	A	A
Milk		A	A	A	A	A	A	A	A	A	A	A	A	A
MTBE		I	I	I	I	I	I	I	I	I	X	A	I	I
Mineral oils		X	X	B	A	X	B	X	X	A	A	A	A	A
Natural gas		C	C	A	A	X	A	X	X	C	A	A	A	A
Nickel chloride	150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A
Nickel sulfate	150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A
Nitric acid, crude		X	X	X	X	X	C	X	X	X	B	X	I	A
Nitric acid, diluted 10%		X	X	B	X	B	A	C	A	C	A	A	A	A
Nitric acid, concentrated 70%		X	X	X	X	C	C	X	C	X	B	C	X	A
Nitrobenzene		X	X	X	X	X	X	X	X	C	B	A	A	A
Oleic acid		X	X	C	C	B	B	B	C	X	B	A	A	A
Oleum		X	C	C	C	X	B	X	C	I	A	X	X	A
Oxalic acid		B	C	B	B	A	A	A	A	B	A	A	A	A
Oxygen		B	C	A	C	A	A	A	A	X	B	A	A	A

POLYMERS CHEMICAL RESISTANCE CHART *

TUDERTECHNICA

	NATURAL RUBBER	SBR	CHLOROPRENE	NITRILE	BUTYL	hypalon®	EPDM	EPM	silicone	viton®	CROSS-LINKED POLYETHYLENE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE	teflon®
	NR	SBR	CR	NBR	IIR	CSM	EPDM	EPM	VMQ	FKM	XLPE	UHMWPE	PTFE
Palmitic acid	X	B	A	A	B	B	B	B	X	A	A	A	A
Perchlorethylene	X	X	X	C	X	X	X	X	C	A	C	C	A
Petroleum oils and crude 200°F (95°C)	X	X	B	A	X	C	X	X	X	B	C	X	A
Phosphoric acid, crude	C	C	C	C	C	A	B	A	C	A	A	A	A
Phosphoric acid, pure 45%	C	C	C	C	C	A	B	A	C	A	A	A	A
Picric acid, molten	C	C	C	C	C	I	I	I	X	A	C	X	A
Picric acid, water solution	A	C	B	B	A	A	I	I	I	A	A	A	A
Potassium chlorite	A	A	A	A	A	A	A	A	A	A	A	A	A
Potassium cyanide	A	A	A	A	A	A	A	A	A	A	A	A	A
Potassium hydroxide	B	B	C	X	A	A	A	A	C	X	A	A	A
Potassium sulfate	A	A	A	A	A	A	A	A	A	A	A	A	A
Propane	X	X	B	A	X	B	X	X	X	A	A	A	A
Sewage	C	C	B	A	C	A	C	C	B	A	A	A	A
Soap solution	A	A	B	A	A	A	A	A	A	A	A	A	A
Soda ash, sodium carbonate	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium bicarbonate, baking soda	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium bisulfate	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium chloride	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium cyanide	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium hydroxide to50% at140°F	B	B	B	B	A	B	A	A	A	A	A	A	A
Sodium hypochlorite	X	X	C	C	A	B	A	A	B	A	A	C	A
Sodium metaphosphate	A	A	C	A	A	B	A	A	A	A	A	A	A
Sodium nitrate	B	B	B	B	A	A	A	A	X	A	A	A	A
Sodium perborate	B	B	B	B	A	A	A	A	B	A	A	A	A
Sodium peroxide	B	B	B	B	A	A	A	A	C	A	A	C	A
Sodium phosphate, monobasic	A	B	B	B	A	A	A	A	X	A	A	A	A
Sodium phosphate, dibasic	A	B	B	B	A	A	A	A	X	A	A	A	A
Sodium phosphate, tribasic	A	B	B	B	A	A	A	A	X	A	A	A	A
Sodium silicate	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium sulfate	A	A	A	A	A	A	A	A	A	A	A	A	A

*POLYMERS CHEMICAL RESISTANCE CHART **

TUDERTECHNICA

	NATURAL RUBBER	SBR	CHLOROPRENE	NITRILE	BUTYL	hypalon®	EPDM	EPM	silicone	viton®	CROSS-LINKED POLYETHYLENE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE	teflon®
	NR	SBR	CR	NBR	IIR	CSM	EPDM	EPM	VMQ	FKM	XLPE	UHMWPE	PTFE
Sodium sulfide	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium thiosulfate, "hypo"	A	A	A	A	A	A	A	A	I	A	A	A	A
Soybean oil	X	C	B	A	A	A	A	C	A	A	A	A	A
Stannic chloride	A	A	A	A	B	A	B	A	B	A	A	A	A
Steam 450°F (230°C)	X	X	X	X	B	X	B	B	I	X	X	X	A
Stearic acid	X	X	C	B	B	C	B	A	A	A	A	A	A
Sulfur	X	X	A	X	A	A	A	A	B	A	A	A	A
Sulfur chloride	X	X	C	C	X	A	X	X	C	A	A	I	A
Sulfur dioxide, dry	C	C	C	C	C	A	C	B	B	B	A	A	A
Sulfur trioxide, dry	X	C	C	C	C	B	C	B	B	A	X	X	A
Sulfuric acid, 10%	C	C	B	C	A	A	A	A	X	A	A	A	A
Sulfuric acid, 11% - 75%	X	X	X	X	B	A	C	A	X	A	A	A	A
Sulfuric acid, 76% - 95%	X	X	X	X	X	A	C	A	X	A	C	A	A
Sulfuric acid, fuming	X	X	X	X	X	X	X	X	X	A	X	X	A
Sulfurous acid	C	C	C	C	C	A	C	B	X	B	A	A	A
Tannic acid	A	C	A	C	A	A	A	A	B	A	A	A	A
Tar	X	X	C	C	X	C	X	X	B	A	X	I	A
Tartaric acid	A	C	C	C	B	A	B	B	A	A	A	A	A
Toluene, Toluol	X	X	X	X	X	X	X	X	X	A	C	C	A
Trichloroethylene	X	X	X	X	X	X	X	X	X	A	C	B	A
Turpentine	X	X	X	B	X	X	X	X	X	A	A	B	A
Urea, water solution	A	I	A	A	A	A	A	A	A	I	A	A	A
Vinegar	C	C	C	C	A	A	A	A	A	A	A	A	A
Vinyl acetate	X	X	X	X	A	X	B	A	X	X	I	A	A
Water, acid mine	A	A	B	A	A	A	A	A	A	A	A	A	A
Water, fresh	A	A	B	A	A	A	A	A	A	A	A	A	A
Water, distilled	A	A	B	A	A	A	A	A	A	A	A	A	A
Whiskey and wines	A	A	A	A	A	A	A	A	A	A	A	A	A

TUDERTECHNICA	NATURAL RUBBER NR	SBR SBR	CHLOROPRENE CR	NITRILE NBR	BUTYL IIR	hypalon® CSM	EPDM EPDM	EPM EPM	silicone VMQ	viton® FKM	CROSS-LINKED POLYETHYLENE XLPE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE UHMWPE	teflon® PTFE
Xylene, xylol	X	X	X	X	X	X	X	X	X	A	C	C	A
Zinc chloride	A	A	A	A	A	A	A	A	A	A	A	A	A
Zinc sulfate	B	B	A	A	A	A	A	A	A	A	A	A	A

LEGEND

A GOOD RESISTANCE

B FAIR RESISTANCE

C POOR RESISTANCE

X NOT RECOMMENDED

I INSUFFICIENT INFORMATION

***** The present tabulation is based on tests and on generally available sources, and believed to be reliable. However must be used as a guidance only since it does not take in consideration all variable that may be encountered in actual use, such as and not limited to: temperature, concentration pressure, duration of exposure, stability of the fluid and possible contamination

All application should always be tested: the compound should always be tested with the chemical it is going to handle

Please note: all data based on 21 °C (70 °F) unless noted

Guidelines for cleaning and sanitizing food hoses

The cleaning and sanitizing suggestions set forth below are guidelines only.
It is necessary that all applicable government regulations pertaining to the cleaning and sanitizing of the food hoses and food hoses assemblies be followed and adhered to and which governmental regulations supersede the guideline contained herein.
The life of the hose is affected by the cleaning and sanitizing process due to the mechanical and chemical stresses which occur during the cleaning and sanitizing procedure. The service period of rubber hoses is dependent on their formulation and the environment of use which in turn is influenced by the product, process temperature, cleaning and bactericidal compounds and time of exposure. Users should frequently monitor the physical condition of the rubber hose material product contact surfaces. Such observations are necessary to determinate the actual sanitary service period of rubber hoses. It is further recommended that the rubber hose be replaced before surface imperfections or sloughing occurs. Routine replacement schedules should be established and followed.
Food hose users should be guided by their own, if applicable, or specific industry cleaning and sanitizing procedures and standards. For example the wine industry may have different standards than the dairy industry and any standards applicable to a specific industry supersede the guideline contained herein.
The cleaning and sanitizing of food hoses and hose assemblies is intended to remove any food particles or residues including detergents or disinfectant that may be the source of harmful bacteria microorganism or other sources of contamination. The effectiveness of the guidelines contained herein are dependent upon the practices and care taken by the users.
CLEANING AND SANITIZING STEPS
1. FREQUENCY The frequency of the cleaning and sanitizing cycle needs to be done according to
the type of food or beverage being conveyed and the contamination risk level. In principle, the cleaning and sanitizing process should be conducted on a frequent basis.
2. WASHING Thoroughly washing the hose with hot potable water is the first step in the cleaning process. Washing with hot potable water will facilitate the cleaning of the hose but does not eliminate the need to clean the hose with the appropriate detergent followed by the disinfection of the hose. The temperature of the hot water and duration of the washing/rinsing cycle will depend upon the characteristic of the material/products being conveyed.
The initial washing/rinsing with hot potable water should be completed as soon as possible after the conveyance process is completed. All residual water and residue from the initial washing/rinsing cycle must be drained away completely.
3. CLEANING/DISINFECTING The selection of a specific detergent and of a specific disinfectant will depend on the material/products being conveyed. The recommendation of the manufacturer of the detergent and of the disinfectant should be strictly followed especially regarding concentration levels.
After the cleaning of the hose with detergent followed by the rinse of it with potable water, the hose must be sterilized either with steam or with chemical solution.
Steam is classified as "Physical" disinfectants: its effectiveness in eliminating bacteria and other contaminants varies according to the material/products being conveyed and the procedure employed by the users.
Chemical disinfectant such as caustic soda, nitric acid, per-acetic acid, phosphoric acid, chloroacetic acid or other acids suitable for disinfecting food hoses must be carefully selected to ensure optimal effectiveness while also assuring maximum safety and health. When selecting a particular disinfectant it is necessary to pay strict attention to concentration levels, temperature, cycle time, etc. The type of product/material being conveyed be taken into consideration when selecting a specific disinfectant.
As soon as the disinfecting treatment with chemical solutions is made, the hose must be carefully and for a sufficiently long time rinsed with potable water to eliminate any chemical residues from the disinfecting treatment.
4. PROCESS CONTROLS The result of the cleaning and sanitizing process must be regularly checked to ensure that all contamination and residuals have been eliminated. Any non conforming events need to be addressed in a corrective action procedure.

	Medium	*Hose tube*	*Concentration*	*Temperature*
RINSING	Hot water	NR / NBR / SILICONE EPDM / IIR / UPE PTFE / PFA	-	Max 90°C
PHYSICAL DISINFECTANT	Steam	NR / NBR	-	Max 110°C Max 10 min
		EPDM / IIR / UPE PTFE / PFA	-	Max 130°C Max 30 min
		SILICONE	-	Max 135°C Max 18 min
CHEMICAL DISINFECTANT	Acid [i.e. Nitric acid]	NR / NBR / SILICONE	0,1%	Max 65°C
			2%	Max 25°C
		EPDM / IIR / UPE PTFE / PFA	0,1%	Max 85°C
			3%	Max 25°C
	Alkaline solution [i.e. Caustic soda]	NR / NBR / SILICONE	2%	Max 65°C
			4%	Max 25°C
		EPDM / IIR / UPE PTFE / PFA	2%	Max 85°C
			5%	Max 25°C
	Disinfectant [i.e. Peracetic acid]	NR / NBR / SILICONE	1%	Max 25°C
		EPDM / IIR / UPE PTFE / PFA		Max 40°C

The life of the hose is affected by the cleaning and sanitizing process due to the mechanical and chemical stresses which occur during the cleaning and sanitizing procedure.
The service life of rubber hoses is directly dependent on frequency and time of exposure to PHYSICAL and CHEMICAL disinfectants.
Users should frequently monitor the physical condition of the rubber hose material product contact surfaces.
Such observations are necessary to determinate the actual sanitary service period of rubber hoses.
The present tabulation is based on tests and on generally available sources, and believed to be reliable. However must be used as a guidance only since it does not take in consideration all variable that may be encountered in actual use such as and not limited to duration of exposure and stability of the fluid and possible contamination.

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This web site and the enclosed catalogues are a reference guide only.
For recommendations regarding hose selection, storing, use or maintenance of these hoses, please request from the Company the specific manual issued by ASSOGOMMA (Italy) or download it from the web site. For any other information please contact our sales office or local representative.

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