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# // THERMOPLASTIC

## // FLEXOR TWB1

### ONE WIRE BRAID

**Tube:** polyester.

**Reinforcement:** one high tensile steel braid.

**Cover:** abrasion, ozone and hydrocarbon resistant polyurethane, non pin-pricked.

**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random



Item Code	↔			↔		↻		↻		∩		♻	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000283	-4	6	1/4	11,7	0,46	31	4400	124	17600	40	1,57	0,17	11
1000284	-5	8	5/16	13,2	0,52	25	3600	100	14400	55	2,17	0,19	12
1000285	-6	10	3/8	15,5	0,61	22,5	3200	90	12800	65	2,56	0,23	17
1000286	-8	13	1/2	18,8	0,74	19	2700	76	10800	85	3,35	0,30	19

## // FLEXOR TWB1 - TWIN

### ONE WIRE BRAID

**Tube:** polyester.

**Reinforcement:** one high tensile steel braid.

**Cover:** abrasion, ozone and hydrocarbon resistant polyurethane, non pin-pricked.

**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random



Item Code	↔			↔		↻		↻		∩		♻	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000289	-4	6	1/4	11,7	0,46	31	4400	124	17600	40	1,57	0,33	22
1000288	-5	8	5/16	13,2	0,52	25	3600	100	14400	55	2,17	0,38	26
1000287	-6	10	3/8	15,5	0,61	22,5	3200	90	12800	65	2,56	0,46	31

Dimensions shown may be changed without prior notice.

**// FLEXOR 7****SAE 100 R7 - EN 855 R7****Tube:** polyester.**Reinforcement:** one or two high tensile textile braids.**Cover:** abrasion, ozone and hydrocarbon resistant polyurethane, pin-pricked.**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random

Item Code	↔			↔		↻		↻		⤵		⚖	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000291	-4	6	1/4	12,2	0,48	21	3000	84	12000	35	1,4	0,10	7
1000292	-5	8	5/16	14,3	0,56	19	2700	76	10800	45	1,8	0,13	9
1000293	-6	10	3/8	16,0	0,63	16	2300	64	9200	55	2,2	0,15	10
1000294	-8	13	1/2	20,3	0,80	14	2000	56	8000	75	3,0	0,22	15

**// FLEXOR 7 - TWIN****SAE 100 R7 - EN 855 R7****Tube:** polyester.**Reinforcement:** one or two high tensile textile braids.**Cover:** abrasion, ozone and hydrocarbon resistant polyurethane, pin-pricked.**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random

Item Code	↔			↔		↻		↻		⤵		⚖	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000298	-4	6	1/4	12,2	0,48	21	3000	84	12000	35	1,4	0,20	13
1000299	-5	8	5/16	14,3	0,56	19	2700	76	10800	45	1,8	0,26	18
1000300	-6	10	3/8	16,0	0,63	16	2300	64	9200	55	2,2	0,29	19
1000301	-8	13	1/2	20,3	0,80	14	2000	56	8000	75	3,0	0,44	30

**// FLEXOR 8**

**SAE 100 R8 - EN 855 R8**

**Tube:** polyester.

**Reinforcement:** one or two braids of aramid fiber.

**Cover:** abrasion, ozone and hydrocarbon resistant polyurethane, pin-pricked.

**MSHA APPROVED**

**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random



Item Code	↔			↔		↻		↻		⤴		⏪	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000295	-4	6	1/4	11,5	0,45	35	5000	140	20000	50	1,97	0,09	6
1000483	-5	8	5/16	13,4	0,53	30	4300	120	17200	55	2,17	0,11	7
1000296	-6	10	3/8	15,5	0,61	28	4000	112	16000	60	2,36	0,14	9
1000416	-8	13	1/2	19,9	0,78	24,5	3500	98	14000	80	3,15	0,20	13

**// MINIMESS**

**(Pressure test point)**

**Tube:** polyester.

**Reinforcement:** one high tensile textile braid.

**Cover:** abrasion, ozone and hydrocarbon resistant polyurethane, pin-pricked.

**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Specially designed for pressure gauges and transducers connections.

**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random



Item Code	↔			↔		↻		↻		⤴		⏪	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000310	—	2	5/64	5	0,2	63	9100	190	27300	20	0,79	0,02	1

Dimensions shown may be changed without prior notice.

## // TEXTILE BRAID

## // ARGUS 1TE/R6 (HF)

SAE 100 R6 - EN 854 R6 (up to 3/4")  
EXCEEDS EN 854 1TE

**Tube:** oil resistant synthetic rubber.

**Reinforcement:** one high tensile textile braid.

**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.

**Application:** low pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

**HALOGEN-FREE COMPOUND**

**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random



Item Code	↔			↔		↻		↻		⤵		♻	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1001385	-4	6	1/4	12,7	0,50	2,8	400	11,2	1600	64	2,6	0,11	7
1001386	-5	8	5/16	14,3	0,56	2,8	400	11,2	1600	76	3,0	0,13	9
1001387	-6	10	3/8	15,9	0,63	2,8	400	11,2	1600	76	3,0	0,16	11
1001388	-8	13	1/2	19,8	0,78	2,8	400	11,2	1600	102	4,1	0,22	15
1001389	-10	16	5/8	23,0	0,91	2,4	350	9,6	1400	107	4,3	0,27	18
1001390	-12	19	3/4	26,9	1,06	2,1	300	8,4	1200	152	6,1	0,33	22
1001391	-16	25	1	33,5	1,32	1,7	250	7,0	1000	203	8,1	0,50	34

## // ARGUS 2TE (HF)

EN 854 2TE

**Tube:** oil resistant synthetic rubber.

**Reinforcement:** one high tensile textile braid.

**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.

**Application:** medium pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

**HALOGEN-FREE COMPOUND**

**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random



Item Code	↔			↔		↻		↻		⤵		♻	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1001398	-4	6	1/4	13,1	0,52	7,5	1100	30,0	4400	40	1,6	0,11	7
1001399	-5	8	5/16	14,9	0,59	6,8	986	27,0	3950	50	2,0	0,15	10
1001400	-6	10	3/8	16,5	0,65	6,3	900	25,2	3650	60	2,4	0,16	11
1001401	-8	13	1/2	19,7	0,78	5,8	840	23,2	3360	70	2,8	0,21	14
1001402	-10	16	5/8	23,9	0,94	5,0	730	20,0	2900	90	3,6	0,28	19
1001403	-12	19	3/4	27,0	1,06	4,5	650	18,0	2600	110	4,4	0,35	23
1001404	-16	25	1	34,4	1,35	4,0	580	16,0	2320	150	6,0	0,50	34

**// ARGUS 3TE/R3 (HF)****SAE 100 R3 - EN 854 3TE****Tube:** oil resistant synthetic rubber.**Reinforcement:** two high tensile textile braids.**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.**Application:** medium pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.**HALOGEN-FREE COMPOUND****Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random

Item Code	↔		↔		↻		↻		⤴		⏪		
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1001405	-4	6	1/4	14,4	0,57	14,5	2100	58	8400	45	1,8	0,17	11
1001406	-5	8	5/16	16,9	0,67	13,0	1900	52	7600	55	2,2	0,22	15
1001407	-6	10	3/8	18,5	0,73	11,0	1600	44	6400	70	2,8	0,24	16
1001408	-8	13	1/2	21,7	0,85	9,3	1350	37,2	5400	85	3,4	0,29	19
1001409	-10	16	5/8	25,9	1,02	8,0	1150	32	4600	105	4,2	0,40	27
1001410	-12	19	3/4	29,0	1,14	7,0	1000	28	4000	130	5,2	0,46	31
1001411	-16	25	1	35,9	1,41	5,5	800	22	3200	150	6,0	0,61	41
1001412	-20	32	1 1/4	42,3	1,67	4,5	650	18	2600	190	7,5	0,74	50
1001531	-24	38	1 1/2	49,3	1,94	4,0	580	16	2320	240	9,5	1,15	77
1001532	-32	51	2	63,0	2,48	3,3	470	13,2	1880	300	11,8	1,50	100

Dimensions shown may be changed without prior notice.

## // WIRE BRAID

## // FLEXOR 1SN/R1AT (HF)

ISO 1436-1 - SAE 100 R1AT  
EN 853 1SN

**Tube:** oil resistant synthetic rubber.

**Reinforcement:** one high tensile steel braid.

**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.

**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

**HALOGEN-FREE COMPOUND**

**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random up to 1" - 61 m max over 1 1/4"



Item Code	↔			↔		↻		↻		⤴		📦	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1001330	-3	5	3/16	11,1	0,44	25,0	3630	100	14520	90	3,6	0,16	11
1001331	-4	6	1/4	12,7	0,50	22,5	3270	90	13080	100	4,0	0,20	13
1001332	-5	8	5/16	14,2	0,56	21,5	3120	86	12480	115	4,6	0,24	16
1001333	-6	10	3/8	16,5	0,65	18,0	2610	72	10460	130	5,2	0,30	20
1001334	-8	13	1/2	19,9	0,78	16,0	2320	64	9280	180	7,2	0,37	25
1001335	-10	16	5/8	23,0	0,91	13,0	1890	52	7560	200	8,0	0,42	28
1001336	-12	19	3/4	27,0	1,06	10,5	1530	42	6120	240	9,6	0,56	38
1001337	-16	25	1	35,0	1,38	8,8	1280	35,2	5120	300	12,0	0,86	58
1001338	-20	32	1 1/4	42,5	1,67	6,3	920	25,2	3680	420	16,8	1,10	74
1001339	-24	38	1 1/2	49,7	1,96	5,0	730	20	2920	500	20,0	1,33	89
1001340	-32	51	2	62,9	2,48	4,0	580	16	2320	630	25,2	1,84	123

## // FLEXOR 1SN/R1AT - MINETUFF

ISO 1436-1 - SAE 100 R1AT  
EN 853 1SN

**Tube:** oil resistant synthetic rubber.

**Reinforcement:** one high tensile steel braid.

**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.

**MSHA APPROVED**

**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random up to 1" - 61 m max over 1 1/4"



Item Code	↔			↔		↻		↻		⤴		📦	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1002311	-4	6	1/4	12,7	0,50	22,5	3270	90	13080	100	4,0	0,20	13
1002312	-5	8	5/16	14,2	0,56	21,5	3120	86	12480	115	4,6	0,24	16
1002313	-6	10	3/8	16,5	0,65	18,0	2610	72	10460	130	5,2	0,30	20
1002314	-8	13	1/2	19,9	0,78	16,0	2320	64	9280	180	7,2	0,37	25
1002315	-10	16	5/8	23,0	0,91	13,0	1890	52	7560	200	8,0	0,42	28
1002316	-12	19	3/4	27,0	1,06	10,5	1530	42	6120	240	9,6	0,56	38
1002317	-16	25	1	35,0	1,38	8,8	1280	35,2	5120	300	12,0	0,86	58
1002497	-20	32	1 1/4	42,1	1,66	6,3	920	25,2	3680	420	16,8	1,09	73
1002319	-24	38	1 1/2	49,2	1,94	5,0	730	20	2920	500	20,0	1,33	89
1002321	-32	51	2	62,4	2,46	4,0	580	16	2320	630	25,2	1,84	123

## // FLEXOR 2SN/R2AT (HF)

ISO 1436-1 - SAE 100 R2AT  
EN 853 2SN

**Tube:** oil resistant synthetic rubber.

**Reinforcement:** two high tensile steel braids.

**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.

**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

**HALOGEN-FREE COMPOUND**

**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random up to 1" - 61 m max over 1 1/4"



Item Code	↔			↔		↕		↕		↷		♻️	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1002952	-3	5	3/16	13,1	0,52	42	6000	168	24000	90	3,6	0,28	19
1001342	-4	6	1/4	14,2	0,56	40	5800	160	23200	100	4,0	0,33	22
1001343	-5	8	5/16	15,8	0,62	35	5000	140	20000	115	4,6	0,35	23
1001344	-6	10	3/8	18,2	0,72	33	4800	132	19200	125	5,0	0,46	31
1001345	-8	13	1/2	21,3	0,84	27,5	4000	110	16000	175	7,0	0,53	36
1001346	-10	16	5/8	24,5	0,96	25	3630	100	14520	200	8,0	0,67	45
1001347	-12	19	3/4	28,6	1,13	21,5	3120	86	12480	240	9,6	0,84	56
1001348	-16	25	1	36,6	1,44	16,5	2400	66	9600	300	12,0	1,25	84
1001349	-20	32	1 1/4	46,0	1,81	12,5	1820	50	7280	420	16,8	1,54	103
1001350	-24	38	1 1/2	52,8	2,08	9	1310	36	5240	500	20,0	2,03	136
1001351	-32	51	2	65,6	2,58	8	1160	32	4640	630	25,2	2,76	185

## // FLEXOR 2SN/R2AT - MINETUFF

ISO 1436-1 - SAE 100 R2AT  
EN 853 2SN

**Tube:** oil resistant synthetic rubber.

**Reinforcement:** two high tensile steel braids.

**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.

**MSHA APPROVED**

**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random up to 1" - 61 m max over 1 1/4"



Item Code	↔			↔		↕		↕		↷		♻️	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1002467	-4	6	1/4	14,2	0,56	40	5800	160	23200	100	4,0	0,33	22
1002468	-5	8	5/16	15,8	0,62	35	5000	140	20000	115	4,6	0,35	23
1002469	-6	10	3/8	18,2	0,72	33	4800	132	19200	125	5,0	0,46	31
1002470	-8	13	1/2	21,3	0,84	27,5	4000	86	12500	175	7,0	0,53	36
1002471	-10	16	5/8	24,5	0,96	25	3630	100	14520	200	8,0	0,67	45
1002472	-12	19	3/4	28,6	1,13	21,5	3120	86	12480	240	9,6	0,85	57
1002473	-16	25	1	36,6	1,44	16,5	2400	66	9600	300	12,0	1,25	84
1002498	-20	32	1 1/4	46,0	1,81	12,5	1820	50	7280	420	16,8	1,54	103
1002474	-24	38	1 1/2	52,8	2,08	9	1310	36	5240	500	20,0	2,03	136
1002475	-32	51	2	65,6	2,58	8	1160	32	4640	630	25,2	2,76	185



Dimensions shown may be changed without prior notice.

## // FLEXOR ELEVATOR

## EN 81.2

**Tube:** oil resistant synthetic rubber.**Reinforcement:** one/two high tensile steel braids.**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.**Application:** medium pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** Random

Item Code	Constr.	↔			↔		↻		↻		⤴		⬆	
		Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1001782	1B	-12	19	3/4	25,8	1,02	5	725	40	6000	240	9,5	0,49	0,33
1000941	1B	-16	25	1	32,1	1,26	5	725	40	6000	300	11,8	0,65	0,44
1000943	1B	-20	32	1 1/4	39,5	1,56	5	725	40	6000	420	16,5	1,00	0,67
1000972	2B	-24	38	1 1/2	48,8	1,92	5	725	40	6000	500	19,7	1,53	1,03
1001781	2B	-32	51	2	62,8	2,47	5	725	40	6000	630	24,8	2,22	1,49

## // FLEXOR 5

## SAE 100 R5 - J1402 DOT All FM VSS 106

**Tube:** oil resistant synthetic rubber.**Reinforcement:** one high tensile steel braid.**Cover:** braided high tensile textile cord.**Application:** medium pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random

Item Code	↔			↔		↻		↻		⤴		⬆	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000054	-4	5	3/16	13,2	0,52	20,7	3000	82,8	12000	76	3,0	0,23	15
1000055	-5	6	1/4	14,8	0,58	20,7	3000	82,8	12000	86	3,4	0,27	18
1000056	-6	8	5/16	17,3	0,68	15,5	2250	62	9000	102	4,1	0,35	23
1000049	-8	11	7/16	19,5	0,77	13,8	2000	55,2	8000	117	4,7	0,45	30
1000050	-10	13	1/2	23,4	0,92	12,1	1750	48,4	7000	140	5,6	0,56	38
1000051	-12	16	5/8	27,4	1,08	10,3	1500	41,4	6000	165	6,6	0,67	45
1000052	-16	22	7/8	31,4	1,24	5,5	800	22	3200	187	7,5	0,69	46
1000053	-20	29	1 1/8	38,1	1,5	4,3	625	17,2	2500	229	9,2	0,85	57
1000326	-24	35	1 3/8	44,5	1,75	3,4	500	13,8	2000	267	10,7	1,06	71
1000203	-32	46	1 3/4	56,4	2,22	2,4	350	9,6	1390	337	13,5	1,35	91

## // FLEXOPAK PLT

**Tube:** oil resistant synthetic rubber.**Reinforcement:** one high tensile steel braid.**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.**Application:** medium pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Specially designed for hydraulic pilot lines.**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random

Item Code	↔			↔		↻		↻		∩		♻	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000274	-3	5	3/16	9,6	0,38	12	1750	48	7000	20	0,8	0,11	7
1000097	-4	6	1/4	11,4	0,45	12	1750	48	7000	30	1,2	0,15	10
1000475	-5	8	5/16	13,0	0,51	12	1750	48	7000	40	1,6	0,18	12
1000476	-6	10	3/8	14,7	0,58	12	1750	48	7000	60	2,4	0,22	15
1000347	-8	13	1/2	17,8	0,70	12	1750	48	7000	80	3,2	0,23	15

## // FLEXOPAK 1SC

## ISO 11237 - EN 857 1SC

**Tube:** oil resistant synthetic rubber.**Reinforcement:** one high tensile steel braid.**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random

Item Code	↔			↔		↻		↻		∩		♻	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000167	-4	6	1/4	12,0	0,47	22,5	3250	90	13000	50	2,0	0,17	11
1000178	-5	8	5/16	14,1	0,56	21,5	3100	86	12400	55	2,2	0,19	13
1000106	-6	10	3/8	15,4	0,61	21	3000	84	12000	65	2,6	0,26	17
1000305	-8	13	1/2	19,5	0,77	16,0	2290	64	9150	90	3,6	0,41	27
1000280	-10	16	5/8	23,0	0,91	13,0	1890	52	7560	100	4,0	0,44	29
1000251	-12	19	3/4	26,7	1,05	10,5	1530	42	6120	125	5,0	0,57	38
1000252	-16	25	1	34,9	1,37	8,8	1280	35,2	5120	150	6,0	0,74	50

Dimensions shown may be changed without prior notice.

## // AT3K - MINETUFF

ISO 11237 - SAE 100 R17  
EN 857 1SC

**Tube:** oil resistant synthetic rubber.

**Reinforcement:** one/two high tensile steel braids.

**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.

**MSHA APPROVED**

**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

**Length:** random



Item Code	Constr.	↔			↔		↙		↘		∩		⏏	
		Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000167	1B	-4	6	1/4	12,0	0,47	22,5	3250	90	13000	50	2,0	0,17	11
1000178	1B	-5	8	5/16	14,1	0,56	21,5	3100	86	12400	55	2,2	0,19	13
1000106	1B	-6	10	3/8	15,4	0,61	21	3000	84	12000	65	2,6	0,26	17
1000105	1B	-8	13	1/2	19,2	0,76	21	3000	84	12000	90	3,6	0,36	24
1000104	2B	-10	16	5/8	23,2	0,91	28	4100	112	16240	101	4,0	0,60	40
1000172	2B	-12	19	3/4	27,6	1,09	24	3500	96	14000	121	4,8	0,78	52
1000173	2B	-16	25	1	35,5	1,40	21	3000	84	12000	152	6,0	1,23	83

// FLEXOPAK 2SC **HF**

**ISO 11237**  
**EN 857 2SC**

**Tube:** oil resistant synthetic rubber.

**Reinforcement:** two high tensile steel braids.

**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.

**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

**HALOGEN-FREE COMPOUND**

**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random



Item Code	↔		↔		↻		↻		⤴		⚖		
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000365	-4	6	1/4	13,0	0,51	40	5800	160	23200	75	3,0	0,27	18
1000366	-5	8	5/16	14,7	0,58	35	5000	140	20000	85	3,3	0,31	21
1000367	-6	10	3/8	16,5	0,65	33	4800	132	19200	90	3,5	0,36	24
1000368	-8	13	1/2	19,9	0,78	27,5	4000	110	16000	130	5,1	0,47	31
1000369	-10	16	5/8	23,4	0,92	25	3630	100	14520	170	6,7	0,57	38
1000370	-12	19	3/4	27,6	1,09	21,5	3120	86	12480	200	7,9	0,76	51
1000371	-16	25	1	34,9	1,37	16,5	2400	66	9600	250	9,8	1,13	76

## // FLEXOPAK 2 - MINETUFF

**ISO 11237 - SAE 100 R16**  
**EN 857 2SC (up to 1")**

**Tube:** oil resistant synthetic rubber.

**Reinforcement:** two high tensile steel braids.

**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.

**MSHA APPROVED**

**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random up to 1" - 61 m max over 1 1/4"



Item Code	↔		↔		↻		↻		⤴		⚖		
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000146	-4	6	1/4	13,0	0,51	42	6000	160	23200	51	2,0	0,26	17
1000174	-5	8	5/16	14,5	0,57	37,5	5440	150	21750	57	2,2	0,31	21
1000147	-6	10	3/8	16,8	0,66	35	5000	140	20300	64	2,5	0,39	26
1000171	-8	13	1/2	20,6	0,81	31	4500	124	17900	90	3,5	0,52	35
1000104	-10	16	5/8	23,2	0,91	28	4100	112	16240	101	4,0	0,60	40
1000172	-12	19	3/4	27,6	1,09	24	3500	96	14000	121	4,8	0,78	52
1000173	-16	25	1	35,5	1,40	21	3000	84	12000	152	6,0	1,23	83
1001533	-20	32	1 1/4	42,0	1,65	14,5	2100	58	8400	210	8,3	1,36	91
1001728	-24	38	1 1/2	49,9	1,96	12,5	1800	50	7200	430	16,9	1,97	132
1001729	-32	51	2	63,5	2,50	10	1450	40	5800	550	21,6	2,55	171
1001945	-40	63	2 1/2	76,4	3,01	7,5	1100	30	4400	720	28,3	3,30	221
1001994	-48	76	3	90,0	3,54	7	1000	28	4000	880	34,6	3,85	258

Dimensions shown may be changed without prior notice.

## // ALFAFOREST

**Tube:** oil resistant synthetic rubber.

**Reinforcement:** three high tensile steel braids.

**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.

**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random



Item Code	↔			↔		↻		↻		⤴		⚖	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1001037	6	10	3/8	21,7	0,85	50,0	7280	196	28000	120	4,7	0,76	52
1001038	8	13	1/2	24,8	0,98	46,9	6800	188	27200	160	6,3	0,88	88
1001039	10	16	5/8	28,3	1,11	41,4	6000	164	23500	210	8,3	1,11	75
1001040	12	19	3/4	32,2	1,27	37,5	5500	150	22000	260	10,2	1,43	97
1001041	16	25	1	40,4	1,59	32,7	4750	131	19200	310	12,2	2,10	142
1001042	20	32	1 1/4	45,9	1,81	24,0	3500	96	14000	410	16,1	2,31	156

# // WIRE SPIRAL

## // FLEXOR 4SP

### EN 856 4SP

**Tube:** oil resistant synthetic rubber.  
**Reinforcement:** four high tensile steel spirals.  
**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.  
**MSHA APPROVED**  
**Application:** very high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.  
**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)  
**Length:** random  
**Note:** specification reference  
 SAE 100 R15 (1/4, 3/8, 1/2)



Item Code	↔			↔		↻		↻		⤴		⏪	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000236	-4	6	1/4	17,9	0,70	45,0	6550	180	26200	150	6,0	0,58	39
1000237	-6	10	3/8	21,4	0,84	44,5	6450	178	25800	180	7,2	0,75	50
1000238	-8	13	1/2	24,6	0,97	41,5	6000	166	24000	230	9,2	0,88	59
1000239	-10	16	5/8	28,2	1,11	35,0	5000	140	20000	250	10,0	1,06	71
1000240	-12	19	3/4	32,2	1,27	38,0	5510	152	22040	300	12,0	1,44	97
1000241	-16	25	1	39,7	1,56	32,0	4640	128	18560	340	13,6	1,96	132

## // FLEXOR 4SH

### EN 856 4SH

**Tube:** oil resistant synthetic rubber.  
**Reinforcement:** four high tensile steel spirals.  
**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.  
**MSHA APPROVED**  
**Application:** very high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.  
**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)  
**Length:** random up to 1" - 61 m max over 1 1/4"



Item Code	↔			↔		↻		↻		⤴		⏪	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000245	-12	19	3/4	32,2	1,27	42	6000	168	24000	280	11,2	1,58	106
1000246	-16	25	1	38,7	1,52	38	5500	152	22000	340	13,6	1,95	131
1000247	-20	32	1 1/4	45,5	1,79	35	5000	140	20000	460	18,4	2,47	165
1000248	-24	38	1 1/2	53,5	2,11	29	4200	116	16800	560	22,4	3,27	219
1000249	-32	51	2	68,1	2,68	25	3650	100	14500	700	28,0	4,67	313

Dimensions shown may be changed without prior notice.

**// FLEXOR R12****SAE 100 R12 - EN 856 R12****Tube:** oil resistant synthetic rubber.**Reinforcement:** four high tensile steel spirals.**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber**MSHA APPROVED****Application:** very high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.**Constant operation:** -40 °C +121 °C (-40 °F +250 °F)**Length:** random up to 1" - 61 m max over 1 1/4"

Item Code	↔			↔		↕		↕		∩		⊞	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000463	-6	10	3/8	20,3	0,80	28	4000	112	16000	127	5,1	0,61	41
1000464	-8	13	1/2	23,8	0,94	28	4000	112	16000	178	7,1	0,76	51
1000465	-10	16	5/8	27,4	1,08	28	4000	112	16000	203	8,1	1,02	68
1000343	-12	19	3/4	30,7	1,21	28	4000	112	16000	241	9,6	1,19	80
1000342	-16	25	1	38,0	1,50	28	4000	112	16000	305	12,2	1,76	118
1000341	-20	32	1 1/4	47,0	1,85	21	3000	84	12000	419	16,8	2,69	180
1000340	-24	38	1 1/2	53,5	2,11	17,5	2500	70	10000	508	20,3	3,08	207
1000339	-32	51	2	66,7	2,63	17,5	2500	70	10000	635	25,4	3,97	266
1000882	-40	63	2 1/2	81,2	3,20	14	2030	56	8120	720	28,3	6,36	427

**// FLEXOR R13****SAE 100 R13 - EN 856 R13****Tube:** oil resistant synthetic rubber.**Reinforcement:** four/six high tensile steel spirals.**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.**MSHA APPROVED****Application:** very high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.**Constant operation:** -40 °C +121 °C (-40 °F +250 °F)**Length:** random up to 1" - 61 m max over 1 1/4"

Item Code	Constr.	↔			↔		↕		↕		∩		⊞	
		Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000231	4S	-16	25	1	38,7	1,52	38	5500	152	22000	305	12,2	2,0	134
1000232	6S	-20	32	1 1/4	49,8	1,96	35	5000	140	20000	419	16,8	3,6	241
1000233	6S	-24	38	1 1/2	57,3	2,26	35	5000	140	20000	508	20,3	4,8	322
1000234	6S	-32	51	2	70,9	2,79	35	5000	140	20000	635	25,4	6,6	442

## // FLEXOR R15 - MINETUFF

## SAE 100 R15

**Tube:** oil resistant synthetic rubber.**Reinforcement:** four/six high tensile steel spirals.**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.**MSHA APPROVED****Application:** very high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.**Constant operation:** -40 °C +121 °C (-40 °F +250 °F)**Length:** random up to 1" - 61 m max over 1 1/4"

Item Code	Constr.	↔			↔		↻		↻		∩		♻	
		Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000254	4S	-10	16	5/8	28,4	1,12	42	6000	168	24000	250	10,0	1,32	88
1000179	4S	-16	25	1	38,7	1,52	42	6000	168	24000	330	13,0	2,20	147
1000180	6S	-20	32	1 1/4	49,8	1,96	42	6000	168	24000	445	17,5	3,59	241
1000189	6S	-24	38	1 1/2	57,3	2,26	42	6000	168	24000	530	20,9	5,00	335
1000344	6S	-32	51	2	72,0	2,83	42	6000	168	24000	635	25,0	7,08	474



Dimensions shown may be changed without prior notice.

**// AT7K - MINETUFF****Tube:** oil resistant synthetic rubber.**Reinforcement:** four/six high tensile steel spirals.**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber**MSHA APPROVED****Application:** very high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.**Constant operation:** -40 °C +121 °C (-40 °F +250 °F)**Length:** random up to 5/8" - 61 m max over 1 1/4"

Item Code	Constr.	↔			↔		↻		↻		∩		♻	
		Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000275	4S	-10	16	5/8	29,4	1,16	49	7000	196	28000	250	10,0	1,32	88
1001847	6S	-20	32	1 1/4	50,4	1,98	52,5	7500	210	30000	420	16,5	3,59	241
1001848	6S	-24	38	1 1/2	57,3	2,26	49	7000	196	28000	500	19,7	5,10	342

**// AT8K - MINETUFF****Tube:** oil resistant synthetic rubber.**Reinforcement:** four high tensile steel spirals.**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.**MSHA APPROVED****Application:** very high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.**Constant operation:** -40 °C +121 °C (-40 °F +250 °F)**Length:** random

Item Code	↔			↔		↻		↻		∩		♻	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1003064	-12	19	3/4	31,8	1,25	56	8000	224	32000	270	10,6	1,71	115
1003066	-16	25	1	39,4	1,55	56	8000	224	32000	300	11,8	2,47	166

# ALFAGOMMA

## alfabiotech

**NEW EXTRA FLEXIBLE  
BIO OIL RESISTANT  
HOSE RANGE**



### alfabiotech

- ▲ SPECIALLY DESIGNED FOR BIO OIL FULL COMPATIBILITY
- ▲ EXTREME FLEXIBILITY: UP TO 50% BETTER BEND RADIUS COMPARED TO SAE 100R
- ▲ MINETUFF COVER FOR TOP ABRASION & OZONE RESISTANCE
- ▲ MSHA-APPROVED FIRE RESISTANT COVER



BEND RADIUS  
STANDARD SAE 100R

BEND RADIUS: REDUCED UP TO 50%

Dimensions shown may be changed without prior notice.

## // ALFABIOTECH

## // ALFABIOTECH 2000 - MINETUFF

## ISO 18752

**Tube:** oil resistant synthetic rubber and biodegradable hydraulic fluids.**Reinforcement:** four high tensile steel spirals.**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.**MSHA APPROVED****Application:** developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.**Temperature:** -40 °C +121 °C (-40 °F +250 °F)**Length:** 61 m from 1 1/4" to 3"

Item Code	↔			↔		↻		↻		∩		♻️	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1002575	-40	63	2 1/2	79	3,11	14	2030	56	8120	720	28,4	4,63	311
1002576	-48	76	3	92,5	3,64	14	2030	56	8120	840	33,1	5,40	362

## // ALFABIOTECH 3000 - MINETUFF

## ISO 18752

## EXCEEDS SAE 100 R12

**Tube:** oil resistant synthetic rubber and biodegradable hydraulic fluids.**Reinforcement:** four/six high tensile steel spirals.**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.**MSHA APPROVED****Application:** developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.**Temperature:** -40 °C +121 °C (-40 °F +250 °F)**Length:** 61 m from 1 1/4" to 3"

Item Code	Constr.	↔			↔		↻		↻		∩		♻️	
		Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1001690	4S	-20	32	1 1/4	45,7	1,80	21	3045	84	12180	230	9,1	2,26	152
1002574	4S	-24	38	1 1/2	51,8	2,04	21	3045	84	12180	420	16,5	2,76	185
1003035	4S	-32	51	2	66,8	2,63	21	3045	84	12180	560	22,0	4,00	268
1003036	6S	-48	76	3	95,6	3,76	21	3045	84	12180	900	35,4	7,95	533

## // ALFABIOTECH 4000 - MINETUFF

### ISO 18752

**Tube:** oil resistant synthetic rubber and biodegradable hydraulic fluids.

**Reinforcement:** four high tensile steel spirals.

**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.

**MSHA APPROVED**

**Application:** developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.

**Temperature:** -40 °C +121 °C (-40 °F +250 °F)

**Length:** random up to 1" - 61 m max over 1 1/4"



Item Code	↔			↔		↻		↻		⤴		⏪	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1001691	-12	19	3/4	29,5	1,16	28	4000	112	16000	120	4,7	1,23	83
1001692	-16	25	1	37,5	1,48	28	4000	112	16000	150	5,9	1,64	110
1002484	-20	32	1 1/4	45,7	1,80	28	4000	112	16000	260	10,2	2,25	151
1002502	-24	38	1 1/2	51,8	2,04	29	4140	116	16824	420	16,5	2,86	192
1002483	-32	51	2	66,8	2,63	28	4000	112	16000	530	20,9	4,48	301

## // ALFABIOTECH 5000 - MINETUFF

### ISO 18752

**Tube:** oil resistant synthetic rubber and biodegradable hydraulic fluids.

**Reinforcement:** four/six high tensile steel spirals.

**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.

**MSHA APPROVED**

**Application:** developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.

**Temperature:** -40 °C +121 °C (-40 °F +250 °F)

**Length:** random up to 1" - 61 m max over 1 1/4"



Item Code	Constr.	↔			↔		↻		↻		⤴		⏪	
		Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1001693	4S	-10	16	5/8	26,3	1,04	35	5000	140	20000	140	5,5	0,87	58
1001694	4S	-12	19	3/4	31,0	1,22	35	5000	140	20000	150	5,9	1,23	83
1001695	4S	-16	25	1	37,6	1,48	35	5000	140	20000	180	7,1	1,68	113
1001696	4S	-20	32	1 1/4	44,4	1,75	35	5000	140	20000	280	11,0	2,27	152
1001780	6S	-24	38	1 1/2	56,5	2,22	35	5000	140	20000	500	19,7	4,48	301
1001779	6S	-32	51	2	70,2	2,76	35	5000	140	20000	550	21,7	6,26	420
1003076	6S	-40	63	2 1/2	82,8	3,26	35	5000	140	20000	820	32,3	7,57	508
1003106	6S	-48	76	3	95,6	3,76	35	5000	87,5*	12687	900	35,4	7,95	533

\* Safety factor 2,5:1

Dimensions shown may be changed without prior notice.

## // ALFABIOTECH 5000 PLUS - MINETUFF

### ISO 18752

**Tube:** oil resistant synthetic rubber and biodegradable hydraulic fluids.

**Reinforcement:** four high tensile steel spirals.

**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.

**MSHA APPROVED**

**Application:** developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.

**Temperature:** -40 °C +121 °C (-40 °F +250 °F)

**Length:** random



Item Code	↔			↔		↻		↻		⤴		⏪	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1001712	-12	19	3/4	31,0	1,22	38	5500	152	22000	180	7,1	1,32	89
1001713	-16	25	1	38,3	1,51	38	5500	152	22000	210	8,3	1,93	130

## // ALFABIOTECH 6000 - MINETUFF

### ISO 18752

### EXCEEDS SAE 100 R15

**Tube:** oil resistant synthetic rubber and biodegradable hydraulic fluids.

**Reinforcement:** four/six high tensile steel spirals.

**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.

**MSHA APPROVED**

**Application:** developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.

**Temperature:** -40 °C +121 °C (-40 °F +250 °F)

**Length:** random up to 1" - 61 m max over 1 1/4"



Item Code	Constr.	↔			↔		↻		↻		⤴		⏪	
		Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1001697	4S	-4	6	1/4	17,3	0,68	45	6525	180	26100	60	2,4	0,47	32
1001698	4S	-6	10	3/8	20,1	0,79	44,5	6450	178	25800	75	3,0	0,55	37
1001699	4S	-8	13	1/2	23,0	0,91	42	6000	168	24000	90	3,5	0,75	50
1001700	4S	-10	16	5/8	31,4	1,24	42	6000	168	24000	180	7,1	1,20	81
1001701	4S	-12	19	3/4	31,2	1,23	42	6000	168	24000	210	8,3	1,47	99
1001702	4S	-16	25	1	38,2	1,50	42	6000	168	24000	250	9,8	2,03	136
1002487	4S	-20	32	1 1/4	46,1	1,81	42	6000	168	24000	445	17,5	2,92	196
1002485	6S	-20	32	1 1/4	49,3	1,94	42	6000	168	24000	445	17,5	3,47	233
1002486	6S	-24	38	1 1/2	56,5	2,22	42	6000	168	24000	530	22,0	4,48	301
1003505	6S	-32	51	2	71,4	2,81	42	6000	168	24000	650	25,6	6,48	435

## // SUPERTUFF

## // AT3K - SUPERTUFF

ISO 11237 - SAE 100 R17  
EN 857 1SC

**Tube:** oil resistant synthetic rubber.

**Reinforcement:** one high tensile steel braid.

**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.

**MSHA APPROVED**

**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Special "supertuff" cover for excellent abrasion resistance and long service life in heavy duty applications.

**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)  
air max T = +70 °C (+160 °F)

**Length:** random



Item Code	↔			↔		↻		↻		⤴		⏪	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000195	-4	6	1/4	12,1	0,48	22,5	3250	90	13000	50	2,0	0,17	11
1000405	-5	8	5/16	14,0	0,55	21,5	3100	86	12500	55	2,2	0,18	12
1000209	-6	10	3/8	15,6	0,61	21	3000	84	12000	65	2,6	0,26	17
1000197	-8	13	1/2	19,5	0,77	21	3000	84	12000	90	3,6	0,41	27
1000226	-10	16	5/8	23,2	0,91	28	4100	112	16240	101	4,0	0,62	42
1000227	-12	19	3/4	27,6	1,09	24	3500	96	14000	125	4,9	0,81	54
1000348	-16	25	1	35,5	1,40	21	3000	84	12000	150	5,9	1,25	84

## // FLEXOPAK 2 - SUPERTUFF

ISO 11237 - SAE 100 R16  
EN 857 2SC

**Tube:** oil resistant synthetic rubber.

**Reinforcement:** two high tensile steel braids.

**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.

Special "supertuff" cover for excellent abrasion resistance and long service life in heavy duty applications.

**MSHA APPROVED**

**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)  
air max T = +70 °C (+160 °F)

**Length:** random



Item Code	↔			↔		↻		↻		⤴		⏪	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000228	-4	6	1/4	13,0	0,51	42	6000	168	24000	51	2,0	0,27	18
1000213	-5	8	5/16	14,5	0,57	37,5	5500	150	21750	57	2,2	0,32	21
1000224	-6	10	3/8	16,8	0,66	35	5000	140	20300	64	2,5	0,40	27
1000225	-8	13	1/2	20,6	0,81	31	4500	124	17900	90	3,5	0,54	36
1000226	-10	16	5/8	23,2	0,91	28	4100	112	16240	101	4,0	0,62	42
1000227	-12	19	3/4	27,6	1,09	24	3500	96	14000	125	4,9	0,81	54
1000348	-16	25	1	35,5	1,40	21	3000	84	12000	150	5,9	1,25	84

Dimensions shown may be changed without prior notice.

**// ALFABIOTECH 5000 - SUPERTUFF****ISO 18752****Tube:** oil resistant synthetic rubber and biodegradable hydraulic fluids.**Reinforcement:** four/six high tensile steel spirals.**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber: Special "supertuff" cover for excellent abrasion resistance and long service life in heavy duty applications.**MSHA APPROVED****Application:** developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.**Temperature:** -40 °C +121 °C (-40 °F +250 °F)**Length:** Random up to 1" - 61 m from 1 1/4" to 3"

Item Code	Constr.	↔			↔		↻		↻		↷		♻️	
		Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1003045	4S	10	16	5/8	26	1,02	35	5000	140	20000	140	5,51	0,93	62
1003037	4S	12	19	3/4	31,6	1,24	35	5000	140	20000	150	5,91	1,29	87
1003038	4S	16	25	1	38,2	1,50	35	5000	140	20000	180	7,09	1,70	114
1003046	4S	20	32	1 1/4	44,4	1,75	35	5000	140	20000	280	11,02	2,98	200
1003047	6S	24	38	1 1/2	56,5	2,22	35	5000	140	20000	500	19,69	4,61	309
1003048	6S	32	51	2	70,2	2,76	35	5000	140	20000	550	21,65	6,38	428

**// ALFABIOTECH 6000 - SUPERTUFF****ISO 18752****EXCEEDS SAE 100 R15****Tube:** oil resistant synthetic rubber and biodegradable hydraulic fluids.**Reinforcement:** four/six high tensile steel spirals.**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber. Special "supertuff" cover for excellent abrasion resistance and long service life in heavy duty applications.**MSHA APPROVED****Application:** developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.**Temperature:** -40 °C +121 °C (-40 °F +250 °F)**Length:** Random up to 1" - 61 m from 1 1/4" to 1 1/2"

Item Code	Constr.	↔			↔		↻		↻		↷		♻️	
		Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1003295	4S	04	6	1/4	17,3	0,68	45	6550	180	26200	60	2,36	0,47	32
1003296	4S	06	10	3/8	20,1	0,79	44,5	6450	178	25800	75	2,95	0,55	37
1003233	4S	08	13	1/2	23,0	0,91	42	6000	168	24000	90	3,54	0,75	50
1002464	4S	10	16	5/8	28,2	1,11	42	6000	168	24000	180	7,09	1,20	81
1003297	4S	12	19	3/4	31,4	1,24	42	6000	168	24000	210	8,27	1,47	99
1002572	4S	16	25	1	38,2	1,50	42	6000	168	24000	250	9,84	2,03	136
1003298	6S	20	32	1 1/4	49,3	1,94	42	6000	168	24000	445	17,52	3,47	233
1003299	6S	24	38	1 1/2	56,5	2,22	42	6000	168	24000	530	20,87	4,48	301

## // HIGH TEMPERATURE

## // TEMP TECH 1SN

ISO 1436-1 - SAE 100 R1AT  
EN 853 1SN

**Tube:** oil resistant synthetic rubber.

**Reinforcement:** one high tensile steel braid.

**Cover:** abrasion, ozone and hydrocarbon resistant blue synthetic rubber.

**MSHA APPROVED**

**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Specially designed for high temperature applications.

**Not recommended for steam service.**

**Constant operation:** -40 °C +150 °C (-40 °F +300 °F)

air max T = +110 °C (+230 °F)

**Length:** random up to 1" - 61 m max over 1 1/4"



Item Code	↔			↔		↻		↻		⤴		⚖	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000556	-4	6	1/4	13,4	0,53	22,5	3270	90	13080	100	4,0	0,22	15
1000332	-6	10	3/8	17,4	0,69	18	2610	72	10460	130	5,2	0,32	21
1000445	-8	13	1/2	20,6	0,81	16	2320	64	9280	180	7,2	0,42	28
1000360	-10	16	5/8	23,7	0,93	13	1890	52	7560	200	8,0	0,51	34
1000333	-12	19	3/4	27,7	1,09	10,5	1530	42	6120	240	9,6	0,61	41
1000361	-16	25	1	35,6	1,40	8,8	1280	35,2	5100	300	12,0	0,93	62
1000563	-20	32	1 1/4	43,5	1,71	6,3	920	25,2	3650	420	16,8	1,30	87
1000565	-24	38	1 1/2	50,6	1,99	5	730	20	2920	500	20,0	1,48	99
1000567	-32	51	2	64,0	2,52	4	580	16	2320	630	25,2	2,00	134

## // TEMP TECH 2SN

ISO 1436-1 - SAE 100 R2AT  
EN 853 2SN

**Tube:** oil resistant synthetic rubber.

**Reinforcement:** two high tensile steel braid.

**Cover:** abrasion, ozone and hydrocarbon resistant blue synthetic rubber.

**MSHA APPROVED**

**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Specially designed for high temperature applications.

**Not recommended for steam service.**

**Constant operation:** -40 °C +150 °C (-40 °F +300 °F)

air max T = +110 °C (+230 °F)

**Length:** random up to 1" - 61 m max over 1 1/4"



Item Code	↔			↔		↻		↻		⤴		⚖	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000447	-4	6	1/4	15,0	0,59	40	5800	160	23200	100	4,0	0,36	24
1000334	-6	10	3/8	19,1	0,75	33	4800	132	19200	125	5,0	0,51	34
1000335	-8	13	1/2	22,2	0,87	28	4000	112	16000	175	7,0	0,64	43
1000349	-10	16	5/8	25,4	1,00	25	3630	100	14520	200	8,0	0,74	50
1000350	-12	19	3/4	29,3	1,15	21,5	3120	86	12480	240	9,6	0,91	61
1000351	-16	25	1	38,1	1,50	16,5	2400	66	9600	300	12,0	1,32	88
1000362	-20	32	1 1/4	48,3	1,90	12,5	1820	50	7280	420	16,8	1,93	129
1000352	-24	38	1 1/2	54,6	2,15	9	1310	36	5240	500	20,0	2,41	161
1000448	-32	51	2	67,4	2,65	8	1160	32	4640	630	25,2	2,96	198



Dimensions shown may be changed without prior notice.

**// FLEXOPAK 2 HT****ISO 11237 - SAE 100 R16  
EN 857 2SC (up to 1")****Tube:** oil resistant synthetic rubber.**Reinforcement:** two high tensile steel braids.**Cover:** abrasion, ozone and hydrocarbon resistant blue synthetic rubber.**MSHA APPROVED****Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Specially designed for high temperature applications.**Constant operation:** -40 °C +135 °C (-40 °F +275 °F)

air max T = +70 °C (+160 °F)

**Length:** random

Item Code	↔			↔		↕		↕		↷		📦	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1002803	-4	6	1/4	13,4	0,53	42	6000	160	23200	51	2,0	0,26	17
1002804	-5	8	5/16	15,0	0,59	37,5	5440	150	21750	57	2,2	0,31	21
1002805	-6	10	3/8	17,4	0,69	35	5000	140	20300	64	2,5	0,39	26
1002806	-8	13	1/2	20,6	0,81	31	4500	124	17900	90	3,5	0,52	35
1002807	-10	16	5/8	23,7	0,93	28	4100	112	16240	101	4,0	0,60	40
1002808	-12	19	3/4	27,7	1,09	24	3500	96	14000	121	4,8	0,78	52
1002809	-16	25	1	35,6	1,40	21	3000	84	12000	152	6,0	1,23	83
1002810	-20	32	1 1/4	43,3	1,70	14,5	2100	58	8400	360	14,2	1,34	90
1002811	-24	38	1 1/2	49,9	1,96	12,5	1820	50	7280	430	16,93	1,86	125
1002812	-32	51	2	63,5	2,50	10	1450	40	5800	550	21,6	2,55	171
1002813	-40	63	2 1/2	76,4	3,01	7,5	1100	30	4400	720	28,3	3,30	221
1002814	-48	76	3	90,0	3,54	7	1000	28	4000	880	34,6	3,85	258

**// TEMP TECH R5****SAE 100 R5****Tube:** oil resistant synthetic rubber.**Reinforcement:** one high tensile steel braid.**Cover:** braided high tensile textile blue cord.**Application:** medium pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Specially designed for high temperature applications.**Constant operation:** -40 °C +150 °C (-40 °F +300 °F)

air max T = +110 °C (+230 °F)

**Length:** random

Item Code	↔			↔		↕		↕		↷		📦	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1002653	-4	5	3/16	13,2	0,52	20,7	3000	82,8	12000	76	3,0	0,23	15
1002654	-5	6	1/4	14,8	0,58	20,7	3000	82,8	12000	86	3,4	0,27	18
1002655	-6	8	5/16	17,3	0,68	15,5	2250	62	9000	102	4,1	0,35	23
1002656	-8	11	7/16	19,5	0,77	13,8	2000	55,2	8000	117	4,7	0,45	30
1002657	-10	13	1/2	23,4	0,92	12,1	1750	48,4	7000	140	5,6	0,56	38
1002658	-12	16	5/8	27,4	1,08	10,3	1500	41,4	6000	165	6,6	0,67	45
1002659	-16	22	7/8	31,4	1,24	5,5	800	22	3200	187	7,5	0,69	46
1002660	-20	29	1 1/8	38,1	1,5	4,3	625	17,2	2500	229	9,2	0,85	57
1002661	-24	35	1 3/8	44,5	1,75	3,4	500	13,8	2000	267	10,7	1,06	71
1002662	-32	46	1 3/4	56,4	2,22	2,4	350	9,6	1400	337	13,5	1,35	91

## // FLEXOR R4 644 HT

## SAE 100 R4

## EXTRA FLEXIBLE - HIGH TEMP

**Tube:** oil resistant synthetic rubber.

**Reinforcement:** high tensile textile cords with embedded steel helix wire.

**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.

**MSHA APPROVED**

**Application:** fuel, oil and hydraulic fluids with 50% max aromatic content suction and delivery. Specially designed for high temperature applications and for hydraulic lines requiring tight bend radius.

**Constant operation:** -40 °C +135 °C (-40 °F +275 °F)

**Length:** 61 m max



Item Code	↔			↔		↻		↻		⤵		⬆	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1001277	-12	19	3/4	29	1,14	2,5	375	10	1500	38	1,5	0,63	42
1001274	-16	25	1	35	1,38	2,0	300	8	1200	50	2,0	0,81	54
1001196	-20	32	1 1/4	42	1,65	1,4	200	5,6	800	64	2,5	0,99	66
1001279	-24	38	1 1/2	48	1,89	1,0	150	4	600	76	3,0	1,15	77
1001281	-32	51	2	61	2,40	0,7	100	2,8	400	102	4,0	1,49	100
1001283	-40	63	2 1/2	75	2,95	0,5	75	2	300	125	4,9	2,23	150
1001285	-48	76	3	88	3,46	0,5	75	2	300	152	6,0	2,75	185
1001290	-64	102	4	116	4,57	0,5	75	2	300	203	8,0	3,61	242

Dimensions shown may be changed without prior notice.

## // LOW TEMPERATURE

## // FLEXOPAK 2 LT

**Tube:** oil resistant ultra low temperature synthetic rubber.**Reinforcement:** two high tensile steel braids.**Cover:** oil, water, ozone and ultra low temperature resistant synthetic rubber.**Application:** hydraulic system with petroleum or water/glycol based fluids, fuel, lubricating oils. Specially designed for ultra low temperature applications.**Constant operation:** -55 °C +100 °C (-67 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random

Item Code	↔			↔		↻		↻		⤵		⚖	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1003221	-4	6	1/4	13,0	0,51	42	6000	168	24000	51	2,0	0,28	19
1003283	-5	8	5/16	14,5	0,57	37,5	5440	150	21750	57	2,2	0,31	21
1003222	-6	10	3/8	16,8	0,66	35	5000	140	20300	64	2,5	0,39	26
1003226	-8	13	1/2	20,6	0,81	31	4500	124	17900	90	3,5	0,52	35
1003223	-10	16	5/8	23,4	0,92	28	4100	112	16240	101	4,0	0,60	40
1003224	-12	19	3/4	27,6	1,09	24	3500	96	14000	121	4,8	0,81	54
1003225	-16	25	1	35,5	1,40	21	3000	84	12000	152	6,0	1,22	82
1003304	-20	32	1 1/4	43,3	1,70	14,5	2100	58	8400	360	14,2	1,50	101

## // ALFAFOREST LT

**Tube:** oil resistant ultra low temperature synthetic rubber.**Reinforcement:** three high tensile steel braids.**Cover:** oil, water, ozone and ultra low temperature resistant synthetic rubber.**Application:** hydraulic system with petroleum or water/glycol based fluids, fuel, lubricating oils. Specially designed for ultra low temperature applications.**Constant operation:** -55 °C +100 °C (-67 °F +212 °F)

air max T = +70 °C (+160 °C)

**Length:** random

Item Code	↔			↔		↻		↻		⤵		⚖	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1003305	-6	10	3/8	21,7	0,85	50	7280	196	28000	120	4,7	0,75	50
1003292	-8	13	1/2	24,8	0,98	46,9	6800	188	27260	160	6,2	0,88	59
1003293	-10	16	5/8	28,3	1,11	41	5945	164	23780	210	8,2	1,10	74
1003230	-12	19	3/4	32,2	1,27	37,5	5440	150	21750	260	10,2	1,43	96
1003294	-16	25	1	40,4	1,59	33	4742	132	19000	310	12,2	2,10	141

## // FLEXOR 4SP LT

## EN 856 4SP

**Tube:** oil resistant ultra low temperature synthetic rubber.

**Reinforcement:** four high tensile steel spirals.

**Cover:** oil, water, ozone and ultra low temperature resistant synthetic rubber.

**Application:** very high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Specially designed for ultra low temperature applications.

**Constant operation:** -55 °C +100 °C (-67 °F +212 °F)

**Length:** random



Item Code	↔			↔		↻		↻		⤴		⚖	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1003284	-4	6	1/4	17,9	0,70	45,0	6550	180	26200	150	6,0	0,58	39
1003285	-6	10	3/8	21,4	0,84	44,5	6450	178	25800	180	7,2	0,75	50
1003286	-8	13	1/2	24,6	0,97	42,0	6090	168	24360	230	9,2	0,88	59
1003231	-10	16	5/8	28,2	1,11	35,0	5000	140	20000	250	10,0	1,06	71
1003287	-12	19	3/4	32,2	1,27	38,0	5510	152	22040	300	12,0	1,44	97
1003288	-16	25	1	39,7	1,56	32,0	4640	128	18560	340	13,6	1,96	132

## // FLEXOR 4SH LT

## EN 856 4SH

**Tube:** oil resistant ultra low temperature synthetic rubber.

**Reinforcement:** four high tensile steel spirals.

**Cover:** oil, water, ozone and ultra low temperature resistant synthetic rubber.

**Application:** very high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Specially designed for ultra low temperature applications.

**Constant operation:** -55 °C +100 °C (-67 °F +212 °F)

**Length:** random



Item Code	↔			↔		↻		↻		⤴		⚖	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1003232	-16	25	1	38,7	1,52	38	5510	152	22000	340	13,6	1,96	132
1003289	-20	32	1 1/4	45,5	1,79	35	5000	140	20000	460	18,4	2,47	165
1003290	-24	38	1 1/2	53,5	2,11	29	4200	116	16800	560	22,4	3,27	219
1003291	-32	51	2	68,1	2,68	25	3650	100	14500	700	28,0	4,67	313

Dimensions shown may be changed without prior notice.

## // OIL RETURN LINES

## // FLEXOR R4 604

## SAE 100 R4

**Tube:** oil resistant synthetic rubber.**Reinforcement:** high tensile textile cords with embedded steel helix wire.**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.**Application:** fuel, oil and hydraulic fluids with 50% max aromatic content suction and delivery. Specially designed for hydraulic oil return lines.**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)**Length:** 61 m max

Item Code	↔			↔		↕		↕		∩		♻️	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000486	-12	19	3/4	29	1,14	2,1	300	8,4	1200	57	2,2	0,61	41
1000487	-16	25	1	35	1,38	1,7	250	6,8	1000	75	3,0	0,76	51
1000488	-20	32	1 1/4	42	1,65	1,4	200	5,6	800	96	3,8	0,90	60
1000489	-24	38	1 1/2	48	1,89	1,0	150	4,0	600	114	4,5	1,03	69
1000490	-32	51	2	61	2,40	0,7	100	2,8	400	152	6,0	1,33	89
1000491	-40	63	2 1/2	75	2,95	0,4	60	1,6	248	189	7,5	2,08	140
1000492	-48	76	3	88	3,46	0,4	60	1,6	224	228	9,0	2,48	166
1000493	-56	90	3 1/2	104	4,09	0,3	45	1,2	180	270	10,7	3,05	205
1000494	-64	102	4	116	4,57	0,2	30	0,8	120	306	12,0	3,41	229

## // FLEXOR R4 634

## SAE 100 R4

## EXTRA FLEXIBLE

**Tube:** oil resistant synthetic rubber.**Reinforcement:** high tensile textile cords with embedded steel helix wire.**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.**Application:** fuel, oil and hydraulic fluids with 50% max aromatic content suction and delivery. Specially designed for hydraulic oil return lines requiring tight bend radius.**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)**Length:** 61 m max

Item Code	↔			↔		↕		↕		∩		♻️	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1001272	-12	19	3/4	29	1,14	2,5	375	10,0	1500	38	1,5	0,58	39
1001273	-16	25	1	35	1,38	2,0	300	8,0	1200	50	2,0	0,75	50
1001275	-20	32	1 1/4	42	1,65	1,7	250	6,8	1000	64	2,5	0,92	62
1001278	-24	38	1 1/2	48	1,89	1,0	150	4,0	600	76	3,0	1,07	72
1001280	-32	51	2	61	2,40	0,7	100	2,8	400	102	4,0	1,39	93
1001282	-40	63	2 1/2	75	2,95	0,5	75	2,0	300	125	4,9	2,10	141
1001284	-48	76	3	88	3,46	0,5	75	2,0	300	152	6,0	2,60	174
1001288	-64	102	4	116	4,57	0,5	75	2,0	300	203	8,0	3,41	229

## // PRESSURE WASH

### // ALFAJET 210

**Tube:** oil, detergents and hot water resistant synthetic rubber.

**Reinforcement:** one high tensile steel braid.

**Cover:** Smooth. Abrasion, ozone and hydrocarbon resistant blue synthetic rubber, pin-pricked. Black cover also available.

**Application:** high pressure power cleaners. Specially designed for hot water applications. Not recommended for steam service.

**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

**Length:** random



Item Code	↔			↔		↻		↻		⤴		⚖	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000192	-4	6	1/4	12,1	0,48	21	3000	84	12000	50	2,0	0,18	12
1000185	-5	8	5/16	14,1	0,56	21	3000	84	12000	60	2,4	0,23	15
1000098	-6	10	3/8	15,6	0,61	21	3000	84	12000	65	2,6	0,28	19
1000166	-8	13	1/2	19,5	0,77	21	3000	84	12000	90	3,6	0,42	28

### // ALFAJET 400

**Tube:** oil, detergents and hot water resistant synthetic rubber.

**Reinforcement:** two high tensile steel braids.

**Cover:** Smooth. Abrasion, ozone and hydrocarbon resistant blue synthetic rubber, pin-pricked. Black cover also available.

**Application:** high pressure power cleaners. specially designed for hot water applications. Not recommended for steam service.

**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

**Length:** random



Item Code	↔			↔		↻		↻		⤴		⚖	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000221	-4	6	1/4	13,2	0,52	40	5800	160	23200	70	2,8	0,27	18
1000220	-5	8	5/16	14,9	0,59	40	5800	140	20000	76	3,0	0,31	21
1000219	-6	10	3/8	16,7	0,66	40	5800	130	18850	90	3,6	0,36	24
1000218	-8	13	1/2	20,1	0,79	40	5800	120	18000	115	4,6	0,47	32

Dimensions shown may be changed without prior notice.

## // PTFE HOSE

### // 9TS OM SMOOTH PTFE STAINLESS STEEL BRAID STANDARD DUTY

#### PERFORMANCE EXCEEDS SAE 100 R14

**Tube:** smooth ptfе - high mechanical and vibration resistance, low permeability, dielectrical, fire resistant, food grade (FDA, DVGW, BFR compliant). Chemically inert, non sticking, ozone and weather resistant.

**Reinforcement:** high tensile stainless steel braid AISI 304.

**Application:** compressed air, gas, steam, fuel, oil, chemical and pharmaceutical products, particularly suitable for steam piping on injection moulding machines, diathermic oil installations, charging lines for cryogenic gas, compressor discharge lines, automotive, pharmaceutical and food sectors. Solvents, pigments and paint transfer lines. Hydraulic lines in power steering marine applications. Not suitable for molten alkali metals and halogens at high temperature.

**Temperature:** -60 °C +260 °C (-76 °F +500 °F)

**Safety factor:** 4:1



Item Code	↔		↔		↓	↻		∠		⬆	
	mm	inch	mm	inch	mm	Mpa	psi	mm	inch	kg/m	lb/C ft
2600557	5	3/16	7,8	0,12	0,76	20,7	3000	51	2,0	0,09	6
2600558	6	1/4	8,6	0,13	0,64	18,1	2600	76	3,0	0,09	6
2600559	8	5/16	11,6	0,14	0,84	15,5	2250	102	4,0	0,13	9
2600560	10	3/8	12,7	0,20	0,84	13,8	2000	127	5,0	0,15	10
2600561	13	1/2	15,4	0,26	0,76	12,1	1750	140	5,5	0,20	13
2600562	16	5/8	18,4	0,31	0,89	10,3	1500	165	6,5	0,27	18
2600563	19	3/4	22,1	0,39	0,89	8,6	1250	203	8,0	0,33	22
2600564	25	1	29,8	0,82	1,10	5,2	750	305	12,0	0,52	35

## // 9TC OM CONVOLUTED PTFE STAINLESS STEEL BRAID



**Tube:** helically convoluted ptfе - high mechanical and vibration resistance, low permeability, dielectrical, fire resistant, food grade (FDA, DVGW, BFR compliant). Chemically inert, non sticking, ozone and weather resistant.

**Reinforcement:** high tensile stainless steel braid AISI 304.

**Application:** compressed air, gas, steam, fuel, oil, chemical and pharmaceutical products, particularly suitable for steam piping on injection moulding machines, diathermic oil installations, charging lines for cryogenic gas, compressor discharge lines, automotive, pharmaceutical and food sectors. Solvents, pigments and paint transfer lines. Hydraulic lines in power steering marine applications. Not suitable for molten alkali metals and halogens at high temperature.

**Temperature:** -60 °C +260 °C (-76 °F +500 °F)

**Safety factor:** 4:1

Item Code	↻		↻		⊕	⊕	⌒		⏪		
	mm	inch	mm	inch	mm	Mpa	psi	mm	inch	kg/m	lb/C ft
2600574	13	1/2	18,8	0,74	0,89	7,8	1150	25	1,0	0,28	19
2600575	16	5/8	22,1	0,87	0,89	6,2	900	51	2,0	0,33	22
2600576	19	3/4	24,7	0,97	0,89	5,2	750	64	2,5	0,40	27
2600577	25	1	32,8	1,29	1,02	3,5	500	89	3,5	0,55	37
2600578	32	1 1/4	40,7	1,60	1,02	2,6	380	127	5,0	0,69	46
2600579	38	1 1/2	48,3	1,90	1,12	2,3	350	152	6,0	0,89	60
2600580	51	2	61,5	2,42	1,20	1,7	250	200	7,9	1,24	83





## // FERRULE SELECTION CHART

// NO SKIVE.....	68
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**// NO SKIVE FERRULE FOR STANDARD FITTINGS**

Hose	Table n°	-03 DN 5 3/16	-04 DN 6 1/4	-05 DN 8 5/16	-06 DN 10 3/8	-08 DN 12 1/2	-10 DN 16 5/8	-12 DN 19 3/4	-16 DN 25 1	-20 DN 32 1 1/4	-24 DN 38 1 1/2	-32 DN 51 2	-40 DN 63 2 1/2	-48 DN 76 3
ARGUS 1TE/R6 (HF)	209		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
ARGUS 2TE (HF)	210		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100404	H1100404	H1100SK1					
ARGUS 3TE/R3 (HF)	252		H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2		
FLEXOR TWB1	200	H1200TP0	H1200TP0	H1200TP0	H1200TP0	H1200TP0								
FLEXOR 7	198	H1200TP0	H1200TP0	H1200TP0	H1200TP0	H1200TP0								
FLEXOR 8	199	H1200TP0	H1200TP0	H1200TP0	H1200TP0	H1200TP0								
FLEXOPAK PLT	197	H1200TP0	H1100SK1	H1200TP0	H1200TP0	H1200TP0								
ALFAJET 210	248	H1200TP0	H1200TP0	H1200TP0	H1200TP0	H1200TP0								
	185		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1					
ALFAJET 400	176		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1					
FLEXOR 1SN (HF)	173	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1		
FLEXOR 1SN MINETUFF	173	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1		
TEMP TECH 1SN	179	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1		
FLEXOPAK 1SC	178		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1					
	206	H1200TP0		H1200TP0	H1200TP0	H1200TP0								
AT3K MINETUFF	185		H1200TP0	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1					
	248	H1200TP0		H1200TP0	H1200TP0	H1200TP0								
AT3K SUPERTUFF	185		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1					
	248	H1200TP0		H1200TP0	H1200TP0	H1200TP0								
FLEXOR 2SN (HF)	174	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2		
FLEXOR 2SN MINETUFF	174	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2		
FLEXOPAK 2SC (HF)	176		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1					
FLEXOPAK 2SC MINETUFF	176		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1					
FLEXOPAK 2 MINETUFF	177		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200TX2	
FLEXOPAK 2 SUPERTUFF	177		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200TX2	
FLEXOPAK 2 HT	177		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200TX2	
ELEVATOR	183						H1200AD1	H1200AD1	H1200AD1	H1200AD1				
ALFABIOTECH 3000	186								H1200204	H1200204				
ALFABIOTECH 4000	194						H1200204	H1200204	H1200204					
ALFABIOTECH 5000	258						H1200204							
ALFABIOTECH 6000	259				H1200204	H1200204								
FLEXOR R12	139				H1200204	H1200204	H1200204	H1200204	H1200204	H1200204	H1200204			
FLEXOR R4	018							H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2	
PTFE - 9TS	201	H2200TF0	H2200TF0	H2200TF0	H2200TF0	H2200TF0	H2200TF0	H2200TF0	H2200TF0					
PTFE - 9TC	203				H2200TF0	H2200TF0	H2200TF0	H2200TF0	H2200TF0	H2200TF0	H2200TF0	H2200TF0		

Hose	Crimping Table n°	-04 DN 5 3/16	-05 DN 6 1/4	-06 DN 8 5/16	-08 DN 10 13/32	-10 DN 12 1/2	-12 DN 16 5/8	-16 DN 22 7/8	-20 DN 29 1 1/8	-24 DN 35 1 3/8	-32 DN 46 1 13/16
FLEXOR 5	261	H1200TX2-03	H1200TX2-04	H1200TX2-05	H1200TX2-06	H1200TX2-08	H1200TX2-10	H1200TX2-12*	H1200TX2-16*	H1200TX2-20*	H1200TX2-32*
TEMP TECH R5	261	H1200TX2-03	H1200TX2-04	H1200TX2-05	H1200TX2-06	H1200TX2-08	H1200TX2-10	H1200TX2-12*	H1200TX2-16*	H1200TX2-20*	H1200TX2-32*

\* for these dimensions is necessary to use the specific insert for R5 hose

Dimensions shown may be changed without prior notice.

## // SKIVE FERRULE FOR STANDARD FITTINGS




Hose	Table n°	-03 DN 5 3/16	-04 DN 6 1/4	-05 DN 8 5/16	-06 DN 10 3/8	-08 DN 12 1/2	-10 DN 16 5/8	-12 DN 19 3/4	-16 DN 25 1	-20 DN 32 1 1/4	-24 DN 38 1 1/2	-32 DN 51 2	-40 DN 63 2 1/2	-48 DN 76 3
FLEXOR 1SN (HF)	223		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
FLEXOR 1SN MINETUFF	223		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
TEMP TECH 1SN	240		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
FLEXOPAK 1SC	208		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
FLEXOR 2SN (HF)	235		H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404		
FLEXOR 2SN MINETUFF	235		H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404		
TEMP TECH 2SN	237		H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404		
FLEXOPAK 2SC (HF)	222		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
FLEXOPAK 2SC MINETUFF	222		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
FLEXOPAK 2 MINETUFF	207		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100404				
FLEXOPAK 2 SUPERTUFF	207		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100404				
FLEXOPAK 2 HT	207		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100404				
ELEVATOR	184												H1100104	
FLEXOR R12	62				H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404		
FLEXOR R15 MINETUFF	145		H1100404		H1100404	H1100404								
FLEXOR 4SP	41		H1100404		H1100404	H1100404	H1100404	H1100404	H1100404					
ALFAFOREST LT	33				H1100404	H1100404	H1100404	H1100404	H1100404	H1100404				
ALFABIOTECH 2000	212												H1100204	H1100204
ALFABIOTECH 3000	229									H1100404	H1100404			
ALFABIOTECH 4000	187							H1100404	H1100404					
ALFABIOTECH 5000	188						H1100404	H1100404	H1100404					
ALFABIOTECH 5000 SUPERTUFF	188						H1100404	H1100404	H1100404					
ALFABIOTECH 5000 PLUS	211							H1100404						
ALFABIOTECH 6000	192		H1100404		H1100404	H1100404								
ALFABIOTECH 6000 SUPERTUFF	192		H1100404		H1100404	H1100404								
AT3K MINETUFF	239		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
AT3K SUPERTUFF	239		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
ALFAJET 210	239		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
ALFAJET 400	222		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					

**// INTERLOCK FERRULE FOR INTERLOCK FITTINGS**

Hose	Table n°	-06 DN 10 3/8	-08 DN 12 1/2	-10 DN 16 5/8	-12 DN 19 3/4	-16 DN 25 1	-20 DN 32 1 1/4	-24 DN 38 1 1/2	-32 DN 51 2	-40 DN 63 2 1/2	-48 DN 76 3
<b>FLEXOR R13</b>	7				H1400200	H1400200	H1400301	H1400301	H1400301	H1T00600	
<b>FLEXOR R15</b>	146			H1400301	H1400200	H1400200	H1400301	H1400301	H1T00600		
<b>FLEXOR 4SH</b>	8				H1400200	H1400200	H1400200	H1400200	H1400200		
<b>ALFABIOTECH 3000</b>	217										H1T00600
<b>ALFABIOTECH 4000</b>	195							H1400200	H1400200		
<b>ALFABIOTECH 5000</b>	189				H1400200	H1400200	H1400200	H1400301	H1400301		
<b>ALFABIOTECH 5000P</b>	190				H1400200	H1400200					
<b>ALFABIOTECH 6000</b>	191			H1400301	H1400200	H1400200	H1400301	H1400301			
<b>AT7K MINETUFF</b>	101			H1400301			H1400301	H1400301			
<b>AT8K MINETUFF</b>	102				H1400301	H1400301					

Dimensions shown may be changed without prior notice.

**// ALFACRIMP - ONE PIECE NO SKIVE**

Hose	Table n°	-04 DN 6 1/4	-05 DN 8 5/16	-06 DN 10 3/8	-08 DN 12 1/2	-10 DN 16 5/8	-12 DN 19 3/4	-16 DN 25 1	-20 DN 31 1 1/4	-24 DN 38 1 1/2	-32 DN 51 2	-48 DN 76 3
FLEXOPAK 1SC	218	C12A	C12A	C12A	C12A	C12A	C12A	C12A				
FLEXOR 1SN 	215	C12A	C12A	C12A	C12A	C12A	C12A	C12A	C124	C124	C124	
FLEXOR 1SN MINETUFF	215	C12A	C12A	C12A	C12A	C12A	C12A	C12A	C124	C124	C124	
FLEXOPAK 2SC 	220	C12A	C12A	C12A	C12A	C12A	C12A	C12A				
FLEXOPAK 2SC MINETUFF	220	C12A	C12A	C12A	C12A	C12A	C12A	C12A				
FLEXOPAK 2 MINETUFF	219	C12A	C12A	C12A	C12A	C12A	C12A	C12A				
	228							C124	C124	C124	C124	C122
FLEXOPAK 2 HT	219	C12A	C12A	C12A	C12A	C12A	C12A	C12A				
	228							C124	C124	C124	C124	C122
FLEXOR 2SN 	216	C12A	C12A	C12A	C12A	C12A	C12A	C12A				
	227				C124	C124	C124	C124	C124	C124	C124	
FLEXOR 2SN MINETUFF	216	C12A	C12A	C12A	C12A	C12A	C12A	C12A				
	227				C124	C124	C124	C124	C124	C124	C124	
AT3K MINETUFF	249	C12A	C12A	C12A	C12A							
ALFAJET 210	249	C12A	C12A	C12A	C12A							
ALFAJET 400	220	C12A	C12A	C12A	C12A	C12A	C12A	C12A				
TEMP TECH 1SN	550	C12A	C12A	C12A	C12A	C12A	C12A	C12A				
	92					C124	C124	C124	C124	C124	C124	
TEMP TECH 2SN	236	C12A	C12A	C12A		C12A	C12A	C12A				
	93			C124	C124	C124	C124	C124	C124	C124	C124	
FLEXOR R12	94			C124	C124	C124	C124	C124	C124	C124	C124	
	196						C126	C126	C126	C126		
FLEXOR 4SH	128						C126	C126	C126	C126	C12H	
FLEXOR R13	127						C126	C126	C126	C126	C12R	
ALFABIOTECH 3000 MINETUFF	213								C124	C124	C124	
ALFABIOTECH 4000 MINETUFF	241						C124	C124				
ALFABIOTECH 5000 MINETUFF	244					C124*	C124*					
	246					C126*	C126	C126	C126	C126	C12R	
ALFABIOTECH 5500 MINETUFF							C126*	C126*				
ALFABIOTECH 6000 MINETUFF	245			C124*	C124*		C124*					
	214						C126	C126	C126			

- Validated for use at only 280 bar (4000 PSI) WP
- \* Under validation