



## // HOSE

// THERMOPLASTIC.....	7	// HIGH TEMPERATURE.....	29
// TEXTILE BRAID.....	10	// LOW TEMPERATURE.....	31
// WIRE BRAID.....	12	// OIL RETURN LINES.....	34
// WIRE SPIRAL - ALFABIOTECH EVOLUTION.....	19	// PRESSURE WASH.....	36
// WIRE SPIRAL - ALFABIOTECH.....	22	// PTFE.....	37
// SUPERTUFF.....	25		

Design and dimensions shown may be changed without prior notice

## // THERMOPLASTIC

## // MINIMESS

**Pressure test point****Tube:** polyester.**Reinforcement:** one braid of aramid fiber.**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.

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

air max T = +70 °C (+160 °F)

**Length:** random

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1000310	1	2,0	5/64"	5,0	0,20	63,0	9100	190,0	27300	20	0,79	0,020	0,02

## // FLEXOR 7

**SAE 100 R7 - EN 855 R7****Tube:** polyester.**Reinforcement:** one/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.**Temperature:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random**DH SCAN crimp short code:** TP066

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1000290	3	5,0	3/16"	9,6	0,38	21,0	3000	84,0	12000	25	0,98	0,060	0,05
1000291	4	6,0	1/4"	12,2	0,48	21,0	3000	84,0	12000	35	1,38	0,100	0,07
1000292	5	8,0	5/16"	14,3	0,56	19,0	2750	76,0	11000	45	1,77	0,130	0,09
1000293	6	10,0	3/8"	16,0	0,63	16,0	2320	64,0	9280	55	2,17	0,145	0,10
1000294	8	13,0	1/2"	20,3	0,80	14,0	2000	56,0	8000	75	2,95	0,220	0,15

// FLEXOR 7 - TWIN



SAE 100 R7 - EN 855 R7

**Tube:** polyester.  
**Reinforcement:** one/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.  
**Temperature:** -40 °C +100 °C (-40 °F +212 °F)  
 air max T = +70 °C (+160 °F)  
**Length:** random  
**DH SCAN crimp short code:** TP063

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1000298	4	6,0	1/4"	12,2	0,48	21,0	3000	84,0	12000	35	1,38	0,200	0,14
1000299	5	8,0	5/16"	14,3	0,56	19,0	2750	76,0	11000	45	1,77	0,260	0,18
1000300	6	10,0	3/8"	16,0	0,63	16,0	2320	64,0	9280	55	2,17	0,290	0,20
1000301	8	13,0	1/2"	20,3	0,80	14,0	2000	56,0	8000	75	2,95	0,440	0,30

// FLEXOR 8



SAE 100 R8 - EN 855 R8

**Tube:** polyester.  
**Reinforcement:** one/two braids of aramid fiber.  
**Cover:** abrasion, ozone and hydrocarbon resistant polyurethane, pin-pricked.  
**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.  
**Temperature:** -40 °C +100 °C (-40 °F +212 °F)  
 air max T = +70 °C (+160 °F)  
**Length:** random  
**DH SCAN crimp short code:** TP075

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1000295	4	6,0	1/4"	11,5	0,45	35,0	5000	140,0	20000	50	1,97	0,085	0,06
1000483	5	8,0	5/16"	13,4	0,53	30,0	4300	120,0	17450	55	2,17	0,105	0,08
1000296	6	10,0	3/8"	15,5	0,61	28,0	4000	112,0	16000	60	2,36	0,135	0,10
1000416	8	13,0	1/2"	19,9	0,78	24,5	3500	98,0	14000	80	3,15	0,200	0,14

// 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.  
**Temperature:** -40 °C +100 °C (-40 °F +212 °F)  
 air max T = +70 °C (+160 °F)  
**Length:** random  
**DH SCAN crimp short code:** TP087

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1000283	4	6,0	1/4"	11,7	0,46	31,0	4500	124,0	18000	40	1,57	0,165	0,12
1000284	5	8,0	5/16"	13,2	0,52	25,0	3630	100,0	14500	55	2,17	0,190	0,13
1000285	6	10,0	3/8"	15,5	0,61	22,5	3250	90,0	13000	65	2,56	0,230	0,16
1000286	8	13,0	1/2"	18,8	0,74	19,0	2750	76,0	11000	85	3,35	0,300	0,21

Design and dimensions shown may be changed without prior notice

## // FLEXOR TWB1 - TWIN

**One wire braid - Twin****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.**Temperature:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random**DH SCAN crimp short code:** TP088

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1000289	4	6,0	1/4"	11,7	0,46	31,0	4500	124,0	18000	40	1,57	0,330	0,23
1000288	5	8,0	5/16"	13,2	0,52	25,0	3630	100,0	14500	55	2,17	0,380	0,26
1000287	6	10,0	3/8"	15,5	0,61	22,5	3250	90,0	13000	65	2,56	0,460	0,31

## // FLEXOR VHP700 RED

**Tube:** polyester.**Reinforcement:** one/two braids of aramid fiber plus one steel wire braid.**Cover:** red abrasion, ozone and hydrocarbon resistant polyurethane, non pin-pricked.**Application:** high pressure systems and pumps; rescue, safety, jacking and rerailing equipments; bolt tensioning tools.**Temperature:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random

Item Code	Constr.	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1004553	1TB+1WB	4	6,0	1/4"	12,7	0,50	70,0	10000	280,0	40600	35	1,38	0,180	0,13

## // TEXTILE BRAID

### // ARGUS 1TE/R6



#### exceeds SAE J517 100 R6 - 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.

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

air max T = +70 °C (+160 °F)

**Length:** random

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1001385	4	6,0	1/4"	11,9	0,47	2,8	400	11,2	1620	64	2,52	0,110	0,08
1001386	5	8,0	5/16"	13,6	0,54	2,8	400	11,2	1620	76	2,99	0,130	0,09
1001387	6	10,0	3/8"	15,0	0,59	2,8	400	11,2	1620	76	2,99	0,160	0,11
1001388	8	13,0	1/2"	18,4	0,72	2,8	400	11,2	1620	102	4,02	0,220	0,15
1001389	10	16,0	5/8"	22,5	0,89	2,4	350	9,6	1400	107	4,21	0,270	0,19
1001390	12	19,0	3/4"	26,4	1,04	2,1	300	8,4	1200	152	5,98	0,367	0,25
1001391	16	25,0	1"	33,1	1,30	1,7	250	7,0	1000	203	7,99	0,476	0,32

### // ARGUS 2TE



#### 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.

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

air max T = +70 °C (+160 °F)

**Length:** random

**DH SCAN crimp short code:** 2TE

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1001398	4	6,0	1/4"	13,1	0,52	7,5	1100	30,0	4300	40	1,57	0,112	0,08
1001399	5	8,0	5/16"	14,9	0,59	6,8	986	27,0	3945	50	1,97	0,148	0,10
1001400	6	10,0	3/8"	16,5	0,65	6,3	920	25,2	3680	60	2,36	0,163	0,11
1001401	8	13,0	1/2"	19,7	0,78	5,8	840	23,2	3360	70	2,76	0,216	0,15
1001402	10	16,0	5/8"	23,9	0,94	5,0	730	20,0	2900	90	3,54	0,281	0,19
1001761	12	19,0	3/4"	27,0	1,06	4,5	650	18,0	2610	110	4,33	0,350	0,24
1001404	16	25,0	1"	34,4	1,35	4,0	600	16,0	2320	150	5,91	0,497	0,34

Design and dimensions shown may be changed without prior notice

## // ARGUS 3TE/R3

**EN 854 3TE - exceeds SAE J517 100 R3****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.**Temperature:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1001405	4	6,0	1/4"	14,2	0,56	14,5	2100	58,0	8400	45	1,77	0,174	0,12
1001406	5	8,0	5/16"	16,4	0,65	13,0	1900	52,0	7560	55	2,17	0,223	0,15
1001407	6	10,0	3/8"	17,8	0,70	11,0	1600	44,0	6400	70	2,76	0,243	0,17
1001408	8	13,0	1/2"	21,2	0,83	9,3	1350	37,2	5400	85	3,35	0,294	0,20
1001409	10	16,0	5/8"	25,2	0,99	8,0	1200	32,0	4640	105	4,13	0,399	0,27
1001410	12	19,0	3/4"	28,6	1,13	7,0	1000	28,0	4000	130	5,12	0,455	0,31
1001411	16	25,0	1"	35,3	1,39	5,5	800	22,0	3200	150	5,91	0,612	0,42
1001412	20	32,0	1 1/4"	42,7	1,68	4,5	650	18,0	2610	190	7,48	0,737	0,50
1001531	24	38,0	1 1/2"	49,4	1,94	4,0	600	16,0	2320	240	9,45	1,150	0,78
1001532	32	51,0	2"	62,6	2,46	3,3	470	13,2	1900	300	11,81	1,500	1,01

## // 2TE RAILWAY

**EN 854 2TE - EN 45545-2****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.

Specially designed for railway applications.

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

air max T = +70 °C (+160 °F)

**Length:** random

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1002680	4	6,0	1/4"	13,1	0,52	7,5	1100	30,0	4300	40	1,57	0,112	0,08
1002681	5	8,0	5/16"	14,9	0,59	6,8	986	27,0	3945	50	1,97	0,148	0,10
1002682	6	10,0	3/8"	16,5	0,65	6,3	920	25,2	3680	60	2,36	0,163	0,11
1002683	8	13,0	1/2"	19,7	0,78	5,8	840	23,2	3360	70	2,76	0,206	0,14
1002684	10	16,0	5/8"	23,9	0,94	5,0	730	20,0	2900	90	3,54	0,281	0,19
1002685	12	19,0	3/4"	27,0	1,06	4,5	650	18,0	2610	110	4,33	0,350	0,24
1002686	16	25,0	1"	34,4	1,35	4,0	600	16,0	2320	150	5,91	0,497	0,34

## // WIRE BRAID

### // 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.

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

**Length:** random

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1000274	3	5,0	3/16"	9,6	0,38	12,0	1750	48,0	7000	20	0,79	0,111	0,08
1000097	4	6,0	1/4"	11,4	0,45	12,0	1750	48,0	7000	30	1,18	0,150	0,11
1000475	5	8,0	5/16"	13,0	0,51	12,0	1750	48,0	7000	40	1,57	0,180	0,13
1000476	6	10,0	3/8"	14,7	0,58	12,0	1750	48,0	7000	60	2,36	0,220	0,15
1000347	8	13,0	1/2"	17,8	0,70	12,0	1750	48,0	7000	80	3,15	0,230	0,16

### // FLEXOPAK 1SC



#### EN 857 1SC - ISO 11237

**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.

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

**Length:** random

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1000305	8	13,0	1/2"	19,5	0,77	16,0	2320	64,0	9280	90	3,54	0,410	0,28
1000280	10	16,0	5/8"	23,0	0,91	13,0	1900	52,0	7560	100	3,94	0,440	0,30
1000251	12	19,0	3/4"	26,7	1,05	10,5	1530	42,0	6000	125	4,92	0,570	0,39
1000252	16	25,0	1"	34,9	1,37	8,8	1280	35,2	5100	150	5,91	0,740	0,50

Design and dimensions shown may be changed without prior notice

## // AT3K - MINETUFF



MSHA

## SAE 100 R17 - EN 857 1SC - ISO 11237

**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.**Temperature:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1000167	4	6,0	1/4"	12,0	0,47	22,5	3250	90,0	13000	50	1,97	0,167	0,12
1000178	5	8,0	5/16"	13,3	0,52	21,5	3120	86,0	12500	55	2,17	0,190	0,13
1000106	6	10,0	3/8"	15,4	0,61	21,0	3000	84,0	12000	65	2,56	0,256	0,18
1000105	8	13,0	1/2"	19,2	0,76	21,0	3000	84,0	12000	90	3,54	0,360	0,25

Specification reference EN 857 1SC for 1/4", 5/16", 3/8" only

## // FLEXOR 1SN/R1AT



HF

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

**Tube:** oil resistant synthetic rubber.**Reinforcement:** one high tensile steel braid.**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.**Temperature:** -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	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1001331	4	6,0	1/4"	12,7	0,50	22,5	3250	90,0	13000	100	3,94	0,209	0,15
1001332	5	8,0	5/16"	14,2	0,56	21,5	3120	86,0	12500	115	4,53	0,240	0,17
1001333	6	10,0	3/8"	16,5	0,65	18,0	2610	72,0	10500	130	5,12	0,313	0,22
1001334	8	13,0	1/2"	19,9	0,78	16,0	2320	64,0	9280	180	7,09	0,372	0,26
1001335	10	16,0	5/8"	23,0	0,91	13,0	1900	52,0	7560	200	7,87	0,466	0,32
1001336	12	19,0	3/4"	27,0	1,06	10,5	1530	42,0	6000	240	9,45	0,560	0,38
1001337	16	25,0	1"	35,0	1,38	8,8	1280	35,2	5100	300	11,81	0,950	0,64
1001338	20	32,0	1 1/4"	42,1	1,66	6,3	920	25,2	3680	420	16,54	1,095	0,74
1001339	24	38,0	1 1/2"	49,2	1,94	5,0	730	20,0	2900	500	19,69	1,411	0,95
1001340	32	51,0	2"	62,4	2,46	4,0	600	16,0	2320	630	24,80	1,864	1,26



// FLEXOR 1SN/R1AT - MINETUFF



MSHA

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

**Tube:** oil resistant synthetic rubber.

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

**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.

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

**Temperature:** -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	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1002311	4	6,0	1/4"	12,7	0,50	22,5	3250	90,0	13000	100	3,94	0,192	0,13
1002312	5	8,0	5/16"	14,2	0,56	21,5	3120	86,0	12500	115	4,53	0,228	0,16
1002313	6	10,0	3/8"	16,5	0,65	18,0	2610	72,0	10500	130	5,12	0,287	0,20
1002314	8	13,0	1/2"	19,9	0,78	16,0	2320	64,0	9280	180	7,09	0,372	0,26
1002315	10	16,0	5/8"	23,0	0,91	13,0	1900	52,0	7560	200	7,87	0,420	0,29
1002316	12	19,0	3/4"	27,0	1,06	10,5	1530	42,0	6000	240	9,45	0,543	0,37
1002317	16	25,0	1"	35,0	1,38	8,8	1280	35,2	5100	300	11,81	0,864	0,59
1002497	20	32,0	1 1/4"	42,1	1,66	6,3	920	25,2	3680	420	16,54	1,042	0,71
1002319	24	38,0	1 1/2"	49,2	1,94	5,0	730	20,0	2900	500	19,69	1,330	0,90
1002321	32	51,0	2"	62,4	2,46	4,0	600	16,0	2320	630	24,80	1,835	1,24

// 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.

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

**Length:** random

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1000054	4	5,0	3/16"	13,2	0,52	20,7	3000	82,8	12000	76	2,99	0,230	0,16
1000055	5	6,3	1/4"	14,8	0,58	20,7	3000	82,8	12000	86	3,39	0,270	0,19
1000056	6	8,0	5/16"	17,3	0,68	15,5	2250	62,0	9000	102	4,02	0,350	0,24
1000049	7	10,3	13/32"	19,5	0,77	13,8	2000	55,2	8000	117	4,61	0,404	0,28
1000050	10	12,5	1/2"	23,4	0,92	12,1	1750	48,4	7000	140	5,51	0,560	0,38
1000051	12	16,0	5/8"	27,4	1,08	10,3	1500	41,4	6000	165	6,50	0,670	0,46
1000052	16	22,0	7/8"	31,4	1,24	5,5	800	22,0	3200	187	7,36	0,690	0,47
1000053	20	29,0	1 1/8"	38,1	1,50	4,3	625	17,2	2500	229	9,02	0,850	0,58
1000326	24	35,0	1 3/8"	44,5	1,75	3,4	525	13,8	2000	267	10,51	1,060	0,72
1000203	32	46,0	1 13/16"	56,4	2,22	2,4	350	9,6	1400	337	13,27	1,350	0,91

Design and dimensions shown may be changed without prior notice

## // FLEXOPAK 2SC



## EN 857 2SC - ISO 11237

**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.**Temperature:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1000365	4	6,0	1/4"	13,0	0,51	40,0	5850	160,0	23200	75	2,95	0,255	0,18
1000366	5	8,0	5/16"	14,7	0,58	35,0	5000	140,0	20000	85	3,35	0,300	0,21
1000367	6	10,0	3/8"	16,5	0,65	33,0	4800	132,0	19200	90	3,54	0,370	0,25
1000368	8	13,0	1/2"	19,9	0,78	27,5	4000	110,0	16000	130	5,12	0,470	0,32
1000369	10	16,0	5/8"	23,4	0,92	25,0	3630	100,0	14500	170	6,69	0,596	0,41
1000370	12	19,0	3/4"	27,9	1,10	21,5	3120	86,0	12500	200	7,87	0,789	0,54
1000371	16	25,0	1"	34,9	1,37	16,5	2400	66,0	9600	250	9,84	1,155	0,78

## // FLEXOPAK 2 - MINETUFF



MSHA

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

**Tube:** oil resistant synthetic rubber.**Reinforcement:** two high tensile steel braids.**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.**Temperature:** -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	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1000146	4	6,0	1/4"	13,0	0,51	42,0	6000	168,0	24000	50	1,97	0,259	0,18
1000174	5	8,0	5/16"	14,5	0,57	37,5	5500	150,0	22000	55	2,17	0,313	0,22
1000147	6	10,0	3/8"	16,8	0,66	35,0	5000	140,0	20000	65	2,56	0,373	0,26
1000171	8	13,0	1/2"	20,6	0,81	31,0	4500	124,0	18000	90	3,54	0,502	0,34
1000104	10	16,0	5/8"	23,2	0,91	28,0	4000	112,0	16000	100	3,94	0,598	0,41
1000172	12	19,0	3/4"	27,9	1,10	24,0	3500	96,0	14000	120	4,72	0,821	0,56
1000173	16	25,0	1"	35,5	1,40	21,0	3000	84,0	12000	150	5,91	1,266	0,86
1001533	20	32,0	1 1/4"	42,2	1,66	14,0	2000	58,0	8400	210	8,27	1,367	0,92
1001728	24	38,0	1 1/2"	49,9	1,96	12,5	1820	50,0	7280	430	16,93	1,864	1,26
1001729	32	51,0	2"	63,0	2,48	10,0	1500	40,0	5850	550	21,65	2,462	1,66
1001945	40	63,0	2 1/2"	76,4	3,01	7,5	1100	30,0	4300	720	28,35	3,300	2,22
1001994	48	76,0	3"	90,0	3,54	7,0	1000	28,0	4000	880	34,65	3,850	2,59

// FLEXOPAK 2 TWIN - MINETUFF



**EN 857 2SC - ISO 11237 - SAE 100 R16**

**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.  
**Temperature:** -40 °C +100 °C (-40 °F +212 °F)  
 air max T = +70 °C (+160 °F)  
**Length:** random

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1003610	6	10,0	3/8"	16,8	0,66	35,0	5000	140,0	20000	64	2,52	0,780	0,53
1003767	8	13,0	1/2"	20,6	0,81	31,0	4500	124,0	18000	90	3,54	1,056	0,71

// FLEXOR 2SN/R2AT



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

**Tube:** oil resistant synthetic rubber.  
**Reinforcement:** two high tensile steel braids.  
**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.  
**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.  
**Temperature:** -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	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1001341	3	5,0	3/16"	13,0	0,51	42,0	6000	168,0	24000	90	3,54	0,282	0,19
1001342	4	6,0	1/4"	14,2	0,56	40,0	5850	160,0	23200	100	3,94	0,330	0,23
1001343	5	8,0	5/16"	15,8	0,62	35,0	5000	140,0	20000	115	4,53	0,357	0,24
1001344	6	10,0	3/8"	18,2	0,72	33,0	4800	132,0	19200	125	4,92	0,460	0,31
1001345	8	13,0	1/2"	21,3	0,84	27,5	4000	110,0	16000	175	6,89	0,534	0,36
1001346	10	16,0	5/8"	24,5	0,96	25,0	3630	100,0	14500	200	7,87	0,670	0,46
1001347	12	19,0	3/4"	28,6	1,13	21,5	3120	86,0	12500	240	9,45	0,895	0,61
1001348	16	25,0	1"	36,6	1,44	16,5	2400	66,0	9600	300	11,81	1,250	0,85
1001349	20	32,0	1 1/4"	46,4	1,83	12,5	1820	50,0	7280	420	16,54	1,852	1,25
1001350	24	38,0	1 1/2"	52,8	2,08	9,0	1310	36,0	5240	500	19,69	2,086	1,41
1001351	32	51,0	2"	65,6	2,58	8,0	1200	32,0	4640	630	24,80	2,748	1,85

Design and dimensions shown may be changed without prior notice

## // FLEXOR 2SN/R2AT - MINETUFF



MSHA

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

**Tube:** oil resistant synthetic rubber.**Reinforcement:** two high tensile steel braids.**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.**Temperature:** -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	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1002467	4	6,0	1/4"	14,2	0,56	40,0	5850	160,0	23200	100	3,94	0,330	0,23
1002468	5	8,0	5/16"	15,8	0,62	35,0	5000	140,0	20000	115	4,53	0,353	0,24
1002469	6	10,0	3/8"	18,2	0,72	33,0	4800	132,0	19200	125	4,92	0,463	0,32
1002470	8	13,0	1/2"	21,3	0,84	27,5	4000	110,0	16000	175	6,89	0,530	0,36
1002471	10	16,0	5/8"	24,5	0,96	25,0	3630	100,0	14500	200	7,87	0,663	0,45
1002472	12	19,0	3/4"	28,6	1,13	21,5	3120	86,0	12500	240	9,45	0,852	0,58
1002473	16	25,0	1"	36,6	1,44	16,5	2400	66,0	9600	300	11,81	1,224	0,83
1002498	20	32,0	1 1/4"	46,0	1,81	12,5	1820	50,0	7280	420	16,54	1,769	1,19
1002474	24	38,0	1 1/2"	52,8	2,08	9,0	1310	36,0	5240	500	19,69	2,030	1,37
1002475	32	51,0	2"	65,6	2,58	8,0	1200	32,0	4640	630	24,80	2,760	1,86

## // FLEXOR ELEVATOR



## EN 81.20

**Tube:** oil resistant synthetic rubber.**Reinforcement:** one/two high tensile steel braids.**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.**Application:** medium pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.**Temperature:** -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random

Item Code	Constr.	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1001782	1WB	12	19,0	3/4"	25,8	1,02	5,0	730	40,0	5850	240	9,45	0,490	0,33
1000941	1WB	16	25,0	1"	32,1	1,26	5,0	730	40,0	5850	300	11,81	0,650	0,44
1000943	1WB	20	32,0	1 1/4"	39,5	1,56	5,0	730	40,0	5850	420	16,54	1,000	0,68
1000972	2WB	24	38,0	1 1/2"	48,8	1,92	5,0	730	40,0	5850	500	19,69	1,530	1,03
1001781	2WB	32	51,0	2"	62,8	2,47	5,0	730	40,0	5850	630	24,80	2,220	1,50

// ALFAFOREST



**Tube:** oil resistant synthetic rubber.

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

**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.

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

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

**Length:** random

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1003316	10	16,0	5/8"	27,8	1,09	41,4	6000	164,0	23500	210	8,27	1,084	0,73
1003317	12	19,0	3/4"	32,2	1,27	37,5	5500	150,0	22000	260	10,24	1,380	0,93
1003318	16	25,0	1"	39,2	1,54	33,0	4800	130,8	19000	310	12,20	1,882	1,27
1003804	20	32,0	1 1/4"	45,9	1,81	24,0	3500	96,0	14000	410	16,14	2,310	1,56

// 2SC RAILWAY



**EN 857 2SC - ISO 11237 - EN 45545-2**

**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.

Specially designed for railway applications.

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

**Length:** random

**DH SCAN crimp short code:** 221T

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1002687	4	6,0	1/4"	13,2	0,52	40,0	5850	160,0	23200	50	1,97	0,270	0,19
1002689	5	8,0	5/16"	14,5	0,57	35,0	5000	140,0	20000	55	2,17	0,310	0,21
1002690	6	10,0	3/8"	17,0	0,67	33,0	4800	132,0	19200	65	2,56	0,360	0,25
1002691	8	13,0	1/2"	20,3	0,80	27,5	4000	110,0	16000	90	3,54	0,470	0,32
1002692	10	16,0	5/8"	23,9	0,94	25,0	3630	100,0	14500	100	3,94	0,570	0,39
1002693	12	19,0	3/4"	27,7	1,09	21,5	3120	86,0	12500	120	4,72	0,760	0,52
1002694	16	25,0	1"	34,6	1,36	16,5	2400	66,0	9600	150	5,91	1,130	0,76

COMPACT DESIGN

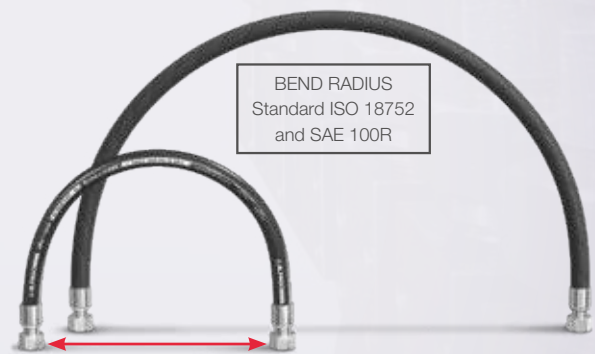
EXTREME BEND RADIUS

AND FLEXIBILITY



## alfabiotech EVOLUTION

- ▲ Specially designed for top performance and compatibility with biodegradable hydraulic oils
- ▲ **Extreme flexibility:** up to 60% better bend radius compared to SAE 100R
- ▲ Compact design & extremely flexible construction
- ▲ Minetuff cover for top abrasion & ozone resistance
- ▲ MSHA-approved fire resistant cover



BEND RADIUS  
Standard ISO 18752  
and SAE 100R

**BEND RADIUS REDUCED UP TO 60%**

# // WIRE SPIRAL - ALFABIOTECH EVOLUTION

## // ALFABIOTECH EVOLUTION 3000 - MINETUFF **NEW**



**MSHA**

### ISO 18752 - exceeds SAE 100 R12

**Tube:** petroleum and biodegradable hydraulic fluid resistant synthetic rubber.

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

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

**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

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

**Length:** 61 m max

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1004782	20	32,0	1 1/4"	44,9	1,77	21,0	3000	84,0	12000	210	8,27	1,876	1,27
1004783	24	38,0	1 1/2"	50,6	1,99	21,0	3000	84,0	12000	250	9,84	2,357	1,59
1004784	32	51,0	2"	64,7	2,55	21,0	3000	84,0	12000	318	12,52	3,537	2,38

## // ALFABIOTECH EVOLUTION 4000 - MINETUFF **NEW**



**MSHA**

### ISO 18752

**Tube:** petroleum and biodegradable hydraulic fluid resistant synthetic rubber.

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

**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.

**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

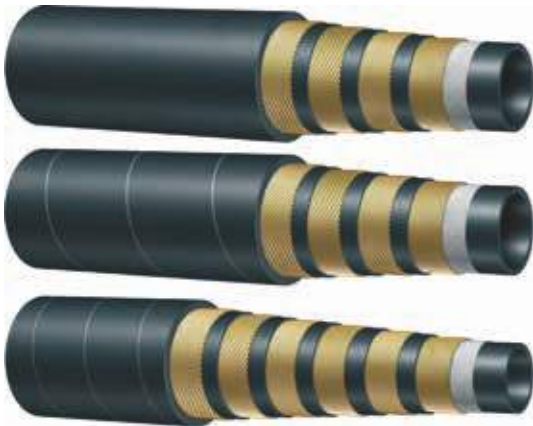
Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

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

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

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1004894	8	13,0	1/2"	22,6	0,89	28,0	4000	112,0	16000	90	3,54	0,624	0,42
1004754	12	19,0	3/4"	29,0	1,14	28,0	4000	112,0	16000	120	4,72	0,978	0,66
1004755	16	25,0	1"	37,2	1,46	28,0	4000	112,0	16000	150	5,91	1,479	1,00
1004773	20	32,0	1 1/4"	44,2	1,74	28,0	4000	112,0	16000	210	8,27	2,214	1,49
1004756	24	38,0	1 1/2"	50,6	1,99	29,0	4200	116,0	16800	250	9,84	2,610	1,76
1004757	32	51,0	2"	64,7	2,55	28,0	4000	112,0	16000	318	12,52	4,001	2,69

Design and dimensions shown may be changed without prior notice

// ALFABIOTECH EVOLUTION 5000 -  
MINETUFF **NEW****MSHA****exceeds ISO 18752****Tube:** petroleum and biodegradable hydraulic fluid resistant synthetic rubber.**Reinforcement:** four/six high tensile steel spirals.**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

**Temperature:** -40 °C +121 °C (-40 °F +250 °F)**Length:** random up to 1" - 61 m max over 1 1/4"

Item Code	Constr.	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1004743	4WS	10	16,0	5/8"	25,4	1,00	35,0	5000	140,0	20000	100	3,94	0,845	0,57
1004744	4WS	12	19,0	3/4"	29,4	1,16	35,0	5000	140,0	20000	120	4,72	1,166	0,79
1004745	4WS	16	25,0	1"	37,4	1,47	35,0	5000	140,0	20000	150	5,91	1,634	1,10
1004746	4WS	20	32,0	1 1/4"	44,0	1,73	35,0	5000	140,0	20000	210	8,27	2,214	1,49
1004747	6WS	24	38,0	1 1/2"	54,8	2,16	35,0	5000	140,0	20000	250	9,84	3,924	2,64
1004748	6WS	32	51,0	2"	68,7	2,70	35,0	5000	140,0	20000	318	12,52	5,787	3,89

// ALFABIOTECH EVOLUTION 5000  
PLUS - MINETUFF **NEW****MSHA****ISO 18752****Tube:** petroleum and biodegradable hydraulic fluid resistant synthetic rubber.**Reinforcement:** four high tensile steel spirals.**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

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

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1004749	12	19,0	3/4"	30,2	1,19	38,0	5500	152,0	22040	120	4,72	1,276	0,86
1004750	16	25,0	1"	37,4	1,47	38,0	5500	152,0	22040	150	5,91	1,817	1,23



**// ALFABIOTECH EVOLUTION 6000 - MINETUFF *NEW***

**MSHA**

**ISO 18752 - exceeds SAE 100 R15**



**Tube:** petroleum and biodegradable hydraulic fluid resistant synthetic rubber.

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

**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.

**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

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

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

Item Code	Constr.	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1004774	4WS	4	6,0	1/4"	17,0	0,67	45,0	6550	180,0	26200	60	2,36	0,510	0,35
1004775	4WS	6	10,0	3/8"	19,8	0,78	44,5	6450	178,0	25800	75	2,95	0,615	0,42
1004776	4WS	8	13,0	1/2"	22,5	0,89	42,0	6000	168,0	24000	90	3,54	0,710	0,48
1004777	4WS	10	16,0	5/8"	27,8	1,09	42,0	6000	168,0	24000	100	3,94	1,190	0,80
1004778	4WS	12	19,0	3/4"	30,6	1,20	42,0	6000	168,0	24000	120	4,72	1,371	0,93
1004779	4WS	16	25,0	1"	38,0	1,50	42,0	6000	168,0	24000	150	5,91	1,926	1,30
1004780	6WS	20	32,0	1 1/4"	47,6	1,87	42,0	6000	168,0	24000	225	8,86	2,982	2,01
1004781	6WS	24	38,0	1 1/2"	54,4	2,14	42,0	6000	168,0	24000	305	12,01	4,155	2,80
1004818	6WS	32	51,0	2"	68,7	2,70	42,0	6000	168,0	24000	380	14,96	6,031	4,06

Design and dimensions shown may be changed without prior notice

## // WIRE SPIRAL - ALFABIOTECH

## // ALFABIOTECH 2000 - MINETUFF



MSHA

## 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.

**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

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1002575	40	63,0	2 1/2"	79,0	3,11	14,0	2000	56,0	8000	720	28,35	4,897	3,30
1002576	48	76,0	3"	92,5	3,64	14,0	2000	56,0	8000	840	33,07	5,760	3,88

## // ALFABIOTECH 3000 - MINETUFF



MSHA

## 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.

**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.	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1001690	4WS	20	32,0	1 1/4"	45,7	1,80	21,0	3000	84,0	12000	230	9,06	2,184	1,47
1002574	4WS	24	38,0	1 1/2"	51,8	2,04	21,0	3000	84,0	12000	420	16,54	2,730	1,84
1003035	4WS	32	51,0	2"	66,8	2,63	21,0	3000	84,0	12000	560	22,05	3,940	2,65
1003036	6WS	48	76,0	3"	95,6	3,76	21,0	3000	84,0	12000	900	35,43	7,935	5,34

// ALFABIOTECH 4000 - MINETUFF

MSHA

ISO 18752



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

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

**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.

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

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

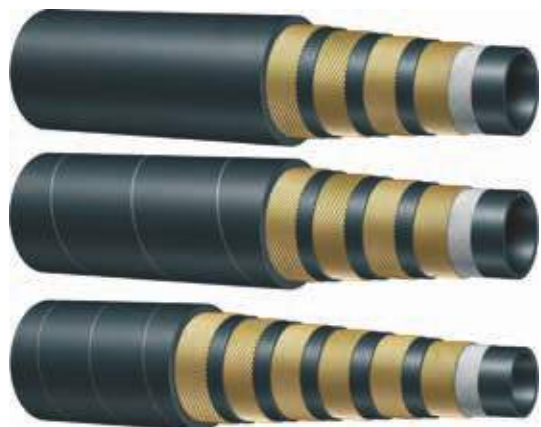
**Length:** random up to 1" - 61 m max over 1 1/4"

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1004313	6	10,0	3/8"	20,1	0,79	28,0	4000	112,0	16000	75	2,95	0,648	0,44
1003797	8	13,0	1/2"	23,0	0,91	28,0	4000	112,0	16000	90	3,54	0,747	0,51
1004314	10	16,0	5/8"	26,3	1,04	28,0	4000	112,0	16000	140	5,51	0,905	0,61
1001691	12	19,0	3/4"	29,5	1,16	28,0	4000	112,0	16000	120	4,72	1,002	0,68
1001692	16	25,0	1"	37,5	1,48	28,0	4000	112,0	16000	150	5,91	1,509	1,02
1002484	20	32,0	1 1/4"	45,7	1,80	28,0	4000	112,0	16000	260	10,24	2,231	1,50
1002502	24	38,0	1 1/2"	51,8	2,04	29,0	4200	116,0	16800	420	16,54	2,907	1,96
1002483	32	51,0	2"	66,8	2,63	28,0	4000	112,0	16000	530	20,87	4,383	2,95

// ALFABIOTECH 5000 - MINETUFF

MSHA

ISO 18752



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

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

**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.

**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.	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1001693	4WS	10	16,0	5/8"	26,3	1,04	35,0	5000	140,0	20000	140	5,51	0,905	0,61
1001694	4WS	12	19,0	3/4"	31,0	1,22	35,0	5000	140,0	20000	150	5,91	1,230	0,83
1001695	4WS	16	25,0	1"	38,0	1,50	35,0	5000	140,0	20000	180	7,09	1,679	1,13
1001696	4WS	20	32,0	1 1/4"	45,8	1,80	35,0	5000	140,0	20000	280	11,02	2,463	1,66
1001780	6WS	24	38,0	1 1/2"	54,8	2,16	35,0	5000	140,0	20000	500	19,69	3,924	2,64
1001779	6WS	32	51,0	2"	70,2	2,76	35,0	5000	140,0	20000	550	21,65	6,174	4,15
1003076	6WS	40	63,0	2 1/2"	82,8	3,26	35,0	5000	140,0	20000	820	32,28	7,567	5,09

Design and dimensions shown may be changed without prior notice

// ALFABIOTECH 5000 PLUS -  
MINETUFF

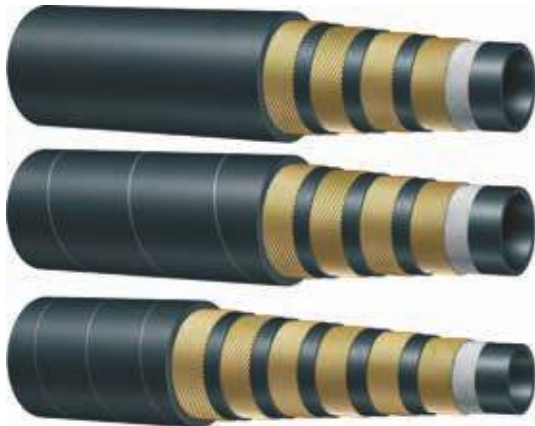
MSHA

## 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.**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	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1001712	12	19,0	3/4"	31,0	1,22	38,0	5500	152,0	22040	180	7,09	1,266	0,86
1001713	16	25,0	1"	38,3	1,51	38,0	5500	152,0	22040	210	8,27	1,895	1,28

## // ALFABIOTECH 6000 - MINETUFF



MSHA

## ISO 18752 - exceeds SAE 100 R15

**Tube:** oil resistant synthetic rubber and biodegradable hydraulic fluids.**Reinforcement:** four/six high tensile steel spirals.**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.**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.	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1001697	4WS	4	6,0	1/4"	17,3	0,68	45,0	6550	180,0	26200	60	2,36	0,518	0,35
1001698	4WS	6	10,0	3/8"	20,1	0,79	44,5	6450	178,0	25800	75	2,95	0,630	0,43
1001699	4WS	8	13,0	1/2"	23,0	0,91	42,0	6000	168,0	24000	90	3,54	0,745	0,51
1001700	4WS	10	16,0	5/8"	28,2	1,11	42,0	6000	168,0	24000	180	7,09	1,260	0,85
1001701	4WS	12	19,0	3/4"	31,4	1,24	42,0	6000	168,0	24000	210	8,27	1,417	0,96
1001702	4WS	16	25,0	1"	38,6	1,52	42,0	6000	168,0	24000	250	9,84	1,991	1,34
1002485	6WS	20	32,0	1 1/4"	49,3	1,94	42,0	6000	168,0	24000	445	17,52	3,415	2,30
1002486	6WS	24	38,0	1 1/2"	56,5	2,22	42,0	6000	168,0	24000	530	20,87	4,476	3,01
1003505	6WS	32	51,0	2"	71,0	2,80	42,0	6000	168,0	24000	650	25,59	6,398	4,30

# // SUPERTUFF

## // AT3K - SUPERTUFF



MSHA

### SAE 100 R17 - EN 857 1SC - ISO 11237

**Tube:** oil resistant synthetic rubber.

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

**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber. Special "supertuff" cover for excellent abrasion resistance and long service life in heavy duty applications.

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

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

air max T = +70 °C (+160 °F)

**Length:** random

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1000195	4	6,0	1/4"	12,1	0,48	22,5	3250	90,0	13000	50	1,97	0,170	0,12
1000405	5	8,0	5/16"	14,0	0,55	21,5	3120	86,0	12500	55	2,17	0,180	0,13
1000209	6	10,0	3/8"	15,6	0,61	21,0	3000	84,0	12000	65	2,56	0,260	0,18
1000197	8	13,0	1/2"	19,5	0,77	21,0	3000	84,0	12000	90	3,54	0,410	0,28

## // FLEXOPAK 2 - SUPERTUFF



MSHA

### EN 857 2SC - ISO 11237 - SAE 100 R16

**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.

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

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

air max T = +70 °C (+160 °F)

**Length:** random

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1000228	4	6,0	1/4"	13,0	0,51	42,0	6000	168,0	24000	50	1,97	0,275	0,19
1000213	5	8,0	5/16"	14,5	0,57	37,5	5500	150,0	22000	55	2,17	0,328	0,23
1000224	6	10,0	3/8"	16,8	0,66	35,0	5000	140,0	20000	65	2,56	0,393	0,27
1000225	8	13,0	1/2"	20,6	0,81	31,0	4500	124,0	18000	90	3,54	0,528	0,36
1000226	10	16,0	5/8"	23,2	0,91	28,0	4000	112,0	16000	100	3,94	0,622	0,42
1000227	12	19,0	3/4"	27,6	1,09	24,0	3500	96,0	14000	120	4,72	0,830	0,56
1000348	16	25,0	1"	35,5	1,40	21,0	3000	84,0	12000	150	5,91	1,300	0,88

Design and dimensions shown may be changed without prior notice

## // ALFABIOTECH 5000 - SUPERTUFF



MSHA

## 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.

**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.	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1003045	4WS	10	16,0	5/8"	26,0	1,02	35,0	5000	140,0	20000	140	5,51	0,945	0,64
1003037	4WS	12	19,0	3/4"	31,6	1,24	35,0	5000	140,0	20000	150	5,91	1,304	0,88
1003038	4WS	16	25,0	1"	38,0	1,50	35,0	5000	140,0	20000	180	7,09	1,720	1,16
1003046	4WS	20	32,0	1 1/4"	44,4	1,75	35,0	5000	140,0	20000	280	11,02	2,553	1,72
1003047	6WS	24	38,0	1 1/2"	56,5	2,22	35,0	5000	140,0	20000	500	19,69	4,016	2,70
1003048	6WS	32	51,0	2"	70,2	2,76	35,0	5000	140,0	20000	550	21,65	6,275	4,22

## // ALFABIOTECH 6000 - SUPERTUFF



MSHA

## 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.

**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.	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1003295	4WS	4	6,0	1/4"	17,3	0,68	45,0	6550	180,0	26200	60	2,36	0,470	0,32
1003296	4WS	6	10,0	3/8"	20,1	0,79	44,5	6450	178,0	25800	75	2,95	0,674	0,46
1003233	4WS	8	13,0	1/2"	23,0	0,91	42,0	6000	168,0	24000	90	3,54	0,750	0,51
1002464	4WS	10	16,0	5/8"	28,2	1,11	42,0	6000	168,0	24000	180	7,09	1,198	0,81
1003297	4WS	12	19,0	3/4"	31,4	1,24	42,0	6000	168,0	24000	210	8,27	1,470	0,99
1002572	4WS	16	25,0	1"	38,2	1,50	42,0	6000	168,0	24000	250	9,84	1,998	1,35
1003298	6WS	20	32,0	1 1/4"	49,3	1,94	42,0	6000	168,0	24000	445	17,52	3,470	2,34
1003299	6WS	24	38,0	1 1/2"	56,5	2,22	42,0	6000	168,0	24000	530	20,87	4,554	3,07
1004485	6WS	32	51,0	2"	71,0	2,80	42,0	6000	168,0	24000	650	25,59	6,499	4,37

## // ALFABIOTECH EVOLUTION 4000 - SUPERTUFF **NEW**



### ISO 18752

**Tube:** petroleum and biodegradable hydraulic fluid resistant synthetic rubber.

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

**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber. Special "supertuff" cover for long service life in extreme applications where low friction and very high abrasion or underwater resistance are required.

**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

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

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

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1005145	12	19,0	3/4"	29,0	1,14	28,0	4000	112,0	16000	120	4,72	0,995	0,67
1005146	16	25,0	1"	37,4	1,47	28,0	4000	112,0	16000	150	5,91	1,495	1,01
1005147	20	32,0	1 1/4"	44,2	1,74	28,0	4000	112,0	16000	210	8,27	2,214	1,49
1005149	24	38,0	1 1/2"	50,6	1,99	29,0	4200	116,0	16800	250	9,84	2,610	1,76
1005150	32	51,0	2"	64,7	2,55	28,0	4000	112,0	16000	318	12,52	4,001	2,69

## // ALFABIOTECH EVOLUTION 5000 - SUPERTUFF **NEW**



**Tube:** petroleum and biodegradable hydraulic fluid resistant synthetic rubber.

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

**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber. Special "supertuff" cover for long service life in extreme applications where low friction and very high abrasion or underwater resistance are required.

**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

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

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

Item Code	Constr.	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1005152	4WS	10	16,0	5/8"	25,4	1,00	35,0	5000	140,0	20000	100	3,94	0,878	0,60
1005151	4WS	12	19,0	3/4"	29,4	1,16	35,0	5000	140,0	20000	120	4,72	1,166	0,79
1005153	4WS	16	25,0	1"	37,4	1,47	35,0	5000	140,0	20000	150	5,91	1,702	1,15
1005154	4WS	20	32,0	1 1/4"	44,0	1,73	35,0	5000	140,0	20000	210	8,27	2,214	1,49
1005155	6WS	24	38,0	1 1/2"	54,8	2,16	35,0	5000	140,0	20000	250	9,84	3,924	2,64
1005156	6WS	32	51,0	2"	68,7	2,70	35,0	5000	140,0	20000	318	12,52	5,787	3,89

Design and dimensions shown may be changed without prior notice

## // ALFABIOTECH EVOLUTION 5000 PLUS - SUPERTUFF **NEW**



**Tube:** petroleum and biodegradable hydraulic fluid resistant synthetic rubber.

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

**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber. Special "supertuff" cover for long service life in extreme applications where low friction and very high abrasion or underwater resistance are required.

**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

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

**Length:** random

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1005157	12	19,0	3/4"	30,2	1,19	38,0	5500	152,0	22040	120	4,72	1,276	0,86
1005158	16	25,0	1"	37,4	1,47	38,0	5500	152,0	22040	150	5,91	1,841	1,24

## // ALFABIOTECH EVOLUTION 6000 - SUPERTUFF **NEW**



### ISO 18752 - exceeds SAE 100 R15

**Tube:** petroleum and biodegradable hydraulic fluid resistant synthetic rubber.

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

**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber. Special "supertuff" cover for long service life in extreme applications where low friction and very high abrasion or underwater resistance are required.

**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

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

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

Item Code	Constr.	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1005159	4WS	4	6,0	1/4"	17,0	0,67	45,0	6550	180,0	26200	60	2,36	0,510	0,35
1005160	4WS	6	10,0	3/8"	19,8	0,78	44,5	6450	178,0	25800	75	2,95	0,615	0,42
1005161	4WS	8	13,0	1/2"	22,5	0,89	42,0	6000	168,0	24000	90	3,54	0,710	0,48
1005162	4WS	10	16,0	5/8"	27,8	1,09	42,0	6000	168,0	24000	100	3,94	1,190	0,80
1005163	4WS	12	19,0	3/4"	30,6	1,20	42,0	6000	168,0	24000	120	4,72	1,371	0,93
1005164	4WS	16	25,0	1"	38,0	1,50	42,0	6000	168,0	24000	150	5,91	1,961	1,32
1005165	6WS	20	32,0	1 1/4"	47,6	1,87	42,0	6000	168,0	24000	225	8,86	2,982	2,01
1005166	6WS	24	38,0	1 1/2"	54,4	2,14	42,0	6000	168,0	24000	305	12,01	4,155	2,80



# // HIGH TEMPERATURE

## // R5 EVOLUTION HT 150



### 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.  
**Temperature:** -40 °C +150 °C (-40 °F +300 °F)  
 air max T up to 7/8" = +85 °C (+185 °F)  
 air max T over 1 1/8" = +110 °C (+230 °F)  
**Length:** random up to 7/8" - 61 m max over 1 1/8"

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1004577	4	5,0	3/16"	13,5	0,53	21,0	3000	84,0	12000	75	2,95	0,355	0,24
1004578	5	6,3	1/4"	15,1	0,59	21,0	3000	84,0	12000	85	3,35	0,382	0,26
1004579	6	8,0	5/16"	17,3	0,68	15,7	2270	62,8	9080	100	3,94	0,501	0,34
1004580	7	10,3	13/32"	19,7	0,78	14,0	2000	56,0	8000	115	4,53	0,586	0,40
1004581	10	12,5	1/2"	23,5	0,93	12,2	1760	48,8	7000	140	5,51	0,752	0,51
1004582	12	16,0	5/8"	27,4	1,08	10,5	1530	42,0	6000	165	6,50	0,871	0,59
1004583	16	22,0	7/8"	31,4	1,24	5,6	800	22,4	3250	185	7,28	0,706	0,48
1004585	20	29,0	1 1/8"	37,6	1,48	4,3	625	17,2	2500	229	9,02	0,924	0,63
1004586	24	35,0	1 3/8"	44,0	1,73	3,5	525	14,0	2000	265	10,43	1,055	0,71
1004587	32	46,0	1 13/16"	56,4	2,22	2,4	350	9,6	1400	335	13,19	1,431	0,97

## // 1SN EVOLUTION HT 150



MSHA

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

**Tube:** oil resistant synthetic rubber.  
**Reinforcement:** one high tensile steel braid.  
**Cover:** smooth up to 1", wrapped over 1 1/4". Abrasion, ozone and hydrocarbon resistant blue synthetic rubber.  
**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.  
 Specially designed for high temperature applications.  
 Not recommended for steam service.  
**Temperature:** -40 °C +150 °C (-40 °F +300 °F)  
 air max T up to 1" = +85 °C (+185 °F),  
 air max T over 1 1/4" = +110 °C (+230 °F)  
**Length:** random up to 1" - 61 m max over 1 1/4"

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1004518	4	6,0	1/4"	12,7	0,50	22,5	3250	90,0	13000	100	3,94	0,206	0,14
1004519	6	10,0	3/8"	16,5	0,65	18,0	2610	72,0	10500	130	5,12	0,307	0,21
1004520	8	13,0	1/2"	19,9	0,78	16,0	2320	64,0	9280	180	7,09	0,379	0,26
1004521	10	16,0	5/8"	22,7	0,89	13,0	1900	52,0	7560	200	7,87	0,436	0,30
1004522	12	19,0	3/4"	27,0	1,06	10,5	1530	42,0	6000	240	9,45	0,565	0,38
1004523	16	25,0	1"	35,8	1,41	8,8	1280	35,2	5100	300	11,81	0,976	0,66
1004530	20	32,0	1 1/4"	42,1	1,66	6,3	920	25,2	3680	420	16,54	1,121	0,76
1004531	24	38,0	1 1/2"	49,2	1,94	5,0	730	20,0	2900	500	19,69	1,443	0,97
1004532	32	51,0	2"	62,4	2,46	4,0	600	16,0	2320	630	24,80	1,911	1,29

Design and dimensions shown may be changed without prior notice

## // 2SN EVOLUTION HT 150



MSHA

**SAE 100 R2AT - ISO 1436-1 - UNI EN 853 2SN****Tube:** oil resistant synthetic rubber.**Reinforcement:** two high tensile steel braids.**Cover:** smooth up to 1", wrapped over 1 1/4". Abrasion, ozone and hydrocarbon resistant blue synthetic rubber.**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

Specially designed for high temperature applications.

Not recommended for steam service.

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

air max T up to 1" = +85 °C (+185 °F),

air max T over 1 1/4" = +110 °C (+230 °F)

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

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1004524	4	6,0	1/4"	14,2	0,56	40,0	5850	160,0	23200	100	3,94	0,339	0,23
1004525	6	10,0	3/8"	18,4	0,72	33,0	4800	132,0	19200	125	4,92	0,480	0,33
1004526	8	13,0	1/2"	21,1	0,83	27,5	4000	110,0	16000	175	6,89	0,549	0,37
1004527	10	16,0	5/8"	24,5	0,96	25,0	3630	100,0	14500	200	7,87	0,689	0,47
1004528	12	19,0	3/4"	29,0	1,14	21,5	3120	86,0	12500	240	9,45	0,881	0,60
1004529	16	25,0	1"	37,4	1,47	16,5	2400	66,0	9600	300	11,81	1,364	0,92
1004533	20	32,0	1 1/4"	46,4	1,83	12,5	1820	50,0	7280	420	16,54	1,894	1,28
1004534	24	38,0	1 1/2"	52,8	2,08	9,0	1310	36,0	5240	500	19,69	2,129	1,44
1004535	32	51,0	2"	65,6	2,58	8,0	1200	32,0	4640	630	24,80	2,815	1,90

# // LOW TEMPERATURE

## // FLEXOPAK 2 LT



**Tube:** oil resistant ultra low temperature synthetic rubber.  
**Reinforcement:** two high tensile steel braids.  
**Cover:** smooth up to 1", wrapped over 1". 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.  
**Temperature:** -55 °C +100 °C (-67 °F +212 °F)  
 air max T = +70 °C (+160 °F)  
**Length:** random up to 1" - 61 m over 1"

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1003221	4	6,0	1/4"	13,0	0,51	42,0	6000	168,0	24000	50	1,97	0,280	0,19
1003283	5	8,0	5/16"	14,5	0,57	37,5	5500	150,0	22000	55	2,17	0,310	0,21
1003222	6	10,0	3/8"	16,8	0,66	35,0	5000	140,0	20000	65	2,56	0,390	0,27
1003226	8	13,0	1/2"	20,6	0,81	31,0	4500	124,0	18000	90	3,54	0,520	0,35
1003223	10	16,0	5/8"	23,4	0,92	28,0	4000	112,0	16000	100	3,94	0,600	0,41
1003224	12	19,0	3/4"	27,6	1,09	24,0	3500	96,0	14000	120	4,72	0,810	0,55
1003225	16	25,0	1"	35,5	1,40	21,0	3000	84,0	12000	150	5,91	1,220	0,82
1003304	20	32,0	1 1/4"	43,3	1,70	14,0	2000	58,0	8400	210	8,27	1,390	0,94

## // 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.  
**Temperature:** -55 °C +100 °C (-67 °F +212 °F)  
 air max T = +70 °C (+160 °F)  
**Length:** random

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1003305	6	10,0	3/8"	21,1	0,83	50,0	7280	196,0	28000	120	4,72	0,756	0,51
1003292	8	13,0	1/2"	24,1	0,95	46,9	6800	188,0	27200	160	6,30	0,892	0,60
1003293	10	16,0	5/8"	27,8	1,09	41,0	6000	164,0	23500	210	8,27	1,121	0,76
1003230	12	19,0	3/4"	32,2	1,27	37,5	5500	150,0	22000	260	10,24	1,430	0,97
1003294	16	25,0	1"	39,2	1,54	32,7	4750	130,8	19000	310	12,20	1,940	1,31

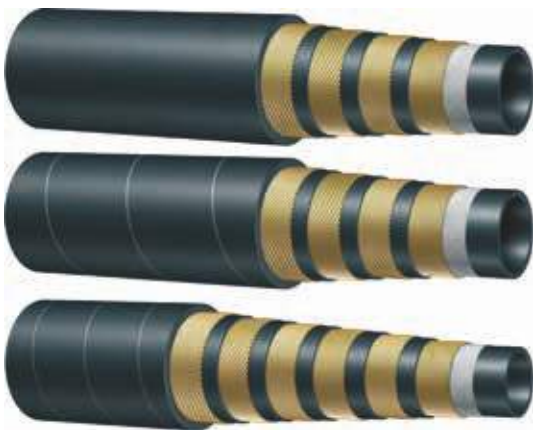
Design and dimensions shown may be changed without prior notice

// EVOLUTION 4000 LT **NEW****ISO 18752****Tube:** oil resistant ultra low temperature synthetic rubber.**Reinforcement:** four high tensile steel spirals.**Cover:** abrasion, ozone, hydrocarbon and ultra low temperature resistant synthetic rubber.**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

Specially designed for long service life in ultra low temperature applications.

**Temperature:** -55 °C +100 °C (-67 °F +212 °F)  
air max T = +70 °C (+160 °F)**Length:** 61 m

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1004944	24	38,0	1 1/2"	50,6	1,99	29,0	4200	116,0	16800	250	9,84	2,659	1,79
1004945	32	51,0	2"	64,7	2,55	28,0	4000	112,0	16000	318	12,52	4,062	2,73

// EVOLUTION 5000 LT **NEW****exceeds ISO 18752****Tube:** oil resistant ultra low temperature synthetic rubber.**Reinforcement:** four/six high tensile steel spirals.**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone, hydrocarbon and ultra low temperature resistant synthetic rubber.**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

Specially designed for long service life in ultra low temperature applications.

**Temperature:** -55 °C +100 °C (-67 °F +212 °F)  
air max T = +70 °C (+160 °F)**Length:** random up to 1" - 61 m max over 1 1/4"

Item Code	Constr.	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1004929	4WS	10	16,0	5/8"	25,4	1,00	35,0	5000	140,0	20000	100	3,94	0,898	0,61
1004930	4WS	12	19,0	3/4"	30,2	1,19	38,0	5500	152,0	22040	120	4,72	1,300	0,88
1004931	4WS	16	25,0	1"	37,4	1,47	38,0	5500	152,0	22040	150	5,91	1,874	1,26
1004932	4WS	20	32,0	1 1/4"	44,2	1,74	35,0	5000	140,0	20000	210	8,27	2,223	1,50
1004933	6WS	24	38,0	1 1/2"	54,8	2,16	35,0	5000	140,0	20000	250	9,84	4,051	2,73
1004934	6WS	32	51,0	2"	68,7	2,70	35,0	5000	140,0	20000	318	12,52	5,922	3,98

// EVOLUTION 6000 LT **NEW**



**ISO 18752 - exceeds SAE 100 R15**



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

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

**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone, hydrocarbon and ultra low temperature resistant synthetic rubber.

**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water. Specially designed for long service life in ultra low temperature applications.

**Temperature:** -55 °C +100 °C (-67 °F +212 °F)  
air max T = +70 °C (+160 °F)

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

Item Code	Constr.	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1004935	4WS	4	6,0	1/4"	17,2	0,68	45,0	6550	180,0	26200	60	2,36	0,552	0,38
1004936	4WS	6	10,0	3/8"	20,2	0,80	44,5	6450	178,0	25800	75	2,95	0,685	0,47
1004937	4WS	8	13,0	1/2"	22,6	0,89	42,0	6000	168,0	24000	90	3,54	0,784	0,53
1004938	4WS	10	16,0	5/8"	27,8	1,09	42,0	6000	168,0	24000	100	3,94	1,277	0,86
1004939	4WS	12	19,0	3/4"	30,6	1,20	42,0	6000	168,0	24000	120	4,72	1,418	0,96
1004940	4WS	16	25,0	1"	38,0	1,50	42,0	6000	168,0	24000	150	5,91	1,995	1,35
1004941	6WS	20	32,0	1 1/4"	47,6	1,87	42,0	6000	168,0	24000	225	8,86	3,135	2,11
1004942	6WS	24	38,0	1 1/2"	54,4	2,14	42,0	6000	168,0	24000	305	12,01	4,192	2,82
1004943	6WS	32	51,0	2"	68,9	2,71	42,0	6000	168,0	24000	380	14,96	6,148	4,14

Design and dimensions shown may be changed without prior notice

## // OIL RETURN LINES

## // FLEXOR R4 604



MSHA

## 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.

**Temperature:** -40 °C +100 °C (-40 °F +212 °F)**Length:** 61 m max

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1001123	12	19,0	3/4"	30,0	1,18	2,1	300	8,4	1200	57	2,24	0,610	0,41
1001124	16	25,0	1"	36,0	1,42	1,7	250	6,8	986	75	2,95	0,760	0,52
1001126	20	32,0	1 1/4"	43,0	1,69	1,4	200	5,6	800	96	3,78	0,990	0,67
1001127	24	38,0	1 1/2"	49,0	1,93	1,0	150	4,2	620	114	4,49	1,140	0,77
1001128	32	51,0	2"	62,0	2,44	0,7	100	2,8	400	152	5,98	1,480	1,00
1001129	40	63,0	2 1/2"	76,0	2,99	0,4	60	1,6	240	189	7,44	2,100	1,42
1001130	48	76,0	3"	89,0	3,50	0,4	60	1,6	240	228	8,98	2,520	1,70
1001131	56	90,0	3 1/2"	104,0	4,09	0,3	45	1,2	180	270	10,63	3,080	2,07
1001132	64	102,0	4"	116,0	4,57	0,2	30	0,8	120	306	12,05	3,440	2,32

## // FLEXOR R4 634



## Extra flexible

## 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 requiring tight bend radius.

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

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)	Length (m)
1001272	12	19,0	3/4"	30,0	1,18	2,1	300	8,4	1200	38	1,50	0,610	0,41	30,500
1001273	16	25,0	1"	36,0	1,42	1,7	250	6,8	986	50	1,97	0,760	0,52	30,500
1001275	20	32,0	1 1/4"	43,0	1,69	1,4	200	5,6	800	64	2,52	0,930	0,63	30,500
1001278	24	38,0	1 1/2"	49,0	1,93	1,0	150	4,0	600	76	2,99	1,080	0,73	30,500
1001280	32	51,0	2"	62,0	2,44	0,7	100	2,8	400	102	4,02	1,400	0,95	30,500
1001282	40	63,0	2 1/2"	76,0	2,99	0,4	60	1,6	240	125	4,92	2,220	1,50	30,500
1001284	48	76,0	3"	89,0	3,50	0,4	60	1,6	240	152	5,98	2,630	1,77	30,500
1001288	64	102,0	4"	116,0	4,57	0,2	30	0,8	120	204	8,03	3,910	2,63	30,500

// FLEXOR R4 644 HT



MSHA

**Extra flexible - High temperature  
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 high temperature applications and hydraulic oil return lines requiring tight bend radius.

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

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)	Length (m)
1001277	12	19,0	3/4"	30,0	1,18	2,1	300	8,4	1200	38	1,50	0,620	0,42	30,500
1001274	16	25,0	1"	36,0	1,42	1,7	250	6,8	986	50	1,97	0,770	0,52	30,500
1001196	20	32,0	1 1/4"	43,0	1,69	1,4	200	5,6	800	64	2,52	0,950	0,64	30,500
1001279	24	38,0	1 1/2"	49,0	1,93	1,0	150	4,0	600	76	2,99	1,100	0,74	30,500
1001281	32	51,0	2"	62,0	2,44	0,7	100	2,8	400	102	4,02	1,430	0,97	30,500
1001283	40	63,0	2 1/2"	76,0	2,99	0,4	60	1,6	240	126	4,96	2,170	1,46	30,500
1001285	48	76,0	3"	89,0	3,50	0,4	60	1,6	240	152	5,98	2,690	1,81	30,500
1001290	64	102,0	4"	116,0	4,57	0,2	30	0,8	120	204	8,03	3,530	2,38	30,500

Design and dimensions shown may be changed without prior notice

## // PRESSURE WASH

## // ALFAJET 210

**Tube:** oil, detergents and hot water resistant synthetic rubber.**Reinforcement:** one high tensile steel braid.**Cover:** abrasion, ozone and hydrocarbon resistant blue synthetic rubber. Black cover also available.**Application:** high pressure power cleaners. Specially designed for hot water applications. Not recommended for steam service.**Length:** random**DH SCAN crimp short code:** AJ210

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)	Tech. Note
1000925	4	6,0	1/4"	12,1	0,48	21,0	3000	84,0	12000	50	1,97	0,161	0,11	NO PIN-PRICKED
1000926	5	8,0	5/16"	14,1	0,56	21,0	3000	84,0	12000	60	2,36	0,184	0,13	NO PIN-PRICKED
1000927	6	10,0	3/8"	15,6	0,61	21,0	3000	73,0	10588	65	2,56	0,250	0,17	NO PIN-PRICKED
1000928	8	13,0	1/2"	19,5	0,77	21,0	3000	73,0	10588	90	3,54	0,359	0,25	NO PIN-PRICKED

Item codes: blue cover hose.

## // ALFAJET 400

**Tube:** oil, detergents and hot water resistant synthetic rubber.**Reinforcement:** two high tensile steel braids.**Cover:** abrasion, ozone and hydrocarbon resistant blue synthetic rubber. Black cover also available.**Application:** high pressure power cleaners. Specially designed for hot water applications. Not recommended for steam service.**Length:** random**DH SCAN crimp short code:** AJ400

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)	Tech. Note
1001293	4	6,0	1/4"	13,2	0,52	40,0	5850	140,0	20000	70	2,76	0,250	0,17	NO PIN-PRICKED
1000935	5	8,0	5/16"	14,9	0,59	40,0	5850	140,0	20000	76	2,99	0,293	0,20	NO PIN-PRICKED
1000936	6	10,0	3/8"	16,7	0,66	40,0	5850	130,0	18900	90	3,54	0,363	0,25	NO PIN-PRICKED
1000937	8	13,0	1/2"	20,1	0,79	40,0	5850	120,0	17450	115	4,53	0,477	0,33	NO PIN-PRICKED

Item codes: blue cover hose.



## // PTFE

## // 9TS 0M

**Smooth PTFE Stainless Steel braid - Standard duty**

**Tube:** smooth PTFE - 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)

**DH SCAN crimp short code:** 9TS

Item Code	ID (mm)	ID (in)	OD (mm)	Innertube T (mm)	WP (Mpa)	WP (psi)	BR (mm)	BR (in)	Weight (kg/m)
2600557	5,0	3/16"	7,9	1	27,6	4000	51	2,01	0,090
2600558	6,0	1/4"	8,6	1	24,1	3500	76	2,99	0,090
2600559	8,0	5/16"	11,1	1	20,7	3000	102	4,02	0,130
2600560	10,0	3/8"	12,7	1	18,3	2600	127	5,00	0,150
2600561	13,0	1/2"	15,4	1	16,1	2300	140	5,51	0,200
2600562	16,0	5/8"	18,4	1	13,8	2000	165	6,50	0,270
2600563	19,0	3/4"	22,1	1	11,4	1600	203	7,99	0,330
2600564	25,0	1"	29,8	1	6,9	1000	305	12,01	0,520

Design and dimensions shown may be changed without prior notice

## // 9TC OM

**Convoluted PTFE Stainless Steel braid**

**Tube:** convoluted PTFE - 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)

**DH SCAN crimp short code:** 9TC

Item Code	ID (mm)	ID (in)	OD (mm)	Innertube T (mm)	WP (Mpa)	WP (psi)	BR (mm)	BR (in)	Weight (kg/m)
2600573	10,0	3/8"	14,8		13,8	2000	20	0,79	0,220
2600574	13,0	1/2"	18,8	1	10,3	1500	25	0,98	0,280
2600575	16,0	5/8"	22,1	1	8,3	1200	51	2,01	0,330
2600576	19,0	3/4"	24,6	1	6,9	1000	64	2,52	0,400
2600577	25,0	1"	32,8	1	4,6	670	89	3,50	0,550
2600578	32,0	1 1/4"	40,7	1	3,4	525	127	5,00	0,690
2600579	38,0	1 1/2"	48,2	1	3,0	450	152	5,98	0,890
2600580	51,0	2"	61,5	1	2,3	345	200	7,87	1,240



## // FERRULE SELECTION CHART

// NO SKIVE FERRULE FOR STANDARD FITTINGS .....	41
// SKIVE FERRULE FOR STANDARD FITTINGS.....	42
// INTERLOCK FERRULE FOR INTERLOCK FITTINGS.....	43
// NO SKIVE FERRULE FOR MULTISPIRAL FITTINGS .....	44
// SKIVE FERRULE FOR MULTISPIRAL FITTINGS .....	44
// ALFACRIMP - ONE PIECE NO SKIVE .....	45

# // 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					
2TE RAILWAY	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	H1200TP0	H1200TP0	H1200TP0					
FLEXOR 7	198	H1200TP0	H1200TP0	H1200TP0	H1200TP0	H1200TP0								
FLEXOR 8	199	H1200TP0	H1200TP0	H1200TP0	H1200TP0	H1200TP0								
FLEXOPAK PLT	197	H1200103	H1200103	H1200TP0	H1200TP0	H1200TP0								
FLEXOPAK 1SC	178		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1					
	206	H1200TP0		H1200TP0	H1200TP0	H1200TP0								
AT3K - MINETUFF	185		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD2					
	248	H1200103		H1200TP0	H1200TP0	H1200TP0								
ALFAJET 210	185		H1200AD1	H1200AD1	H1200AD1	H1200AD1								
	248			H1200TP0	H1200TP0	H1200TP0								
FLEXOPAK 2SC (HF)	176		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1					
2SC RAILWAY	176		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1					
ALFAJET 400	176		H1200AD1	H1200AD1	H1200AD1	H1200AD1								
FLEXOPAK 2 - MINETUFF	177		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200TX2	H1200TX2
FLEXOPAK 2 LT	177		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1			H1200AD1				
FLEXOPAK 2 - MINETUFF	300							H1200AD2	H1200AD2					
FLEXOPAK 2 LT	300							H1200AD2	H1200AD2					
FLEXOPAK 2 TWIN - MINETUFF	177				H1200AD1	H1200AD1								
FLEXOR 1SN (HF)	173	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1		
FLEXOR 1SN/R1AT - MINETUFF	173		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1		
1SN EVOLUTION HT 150	173		H1200AD1		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1		
	298								H1200AD2					
FLEXOR 2SN (HF)	174	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2		
FLEXOR 2SN/R2AT - MINETUFF	174		H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2		
2SN EVOLUTION HT 150	174		H1200AD2		H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2		
FLEXOR 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 R4	068							H1200TX4	H1200TX4	H1200TX4	H1200TX4	H1200TX4	H1200TX4	
	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		

\* validated at 280 bar (4000 psi)

Hose	Table n°	-04 DN 5 3/16"	-05 DN 6 1/4"	-06 DN 8 5/16"	-08 DN 11 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 Insert (Dash size)	261	H1200TX2-03 H12xxxxx-03	H1200TX2-04 H12xxxxx-04	H1200TX2-05 H12xxxxx-05	H1200TX2-06 H12xxxxx-07	H1200TX2-08 H12xxxxx-08	H1200TX2-10 H12xxxxx-10	H1200TX2-12 H12xxxxx-14	H1200TX2-16 H12xxxxx-18	H1200TX2-20 H12xxxxx-22	H1200TX2-32 H12xxxxx-29
R5 EVOLUTION HT 150 Insert (Dash size)	261	H1200TX2-03 H12xxxxx-03	H1200TX2-04 H12xxxxx-04	H1200TX2-05 H12xxxxx-05	H1200TX2-06 H12xxxxx-07	H1200TX2-08 H12xxxxx-08	H1200TX2-10 H12xxxxx-10	H1200TX2-12 H12xxxxx-14	H1200TX2-16 H12xxxxx-18	H1200TX2-20 H12xxxxx-22	H1200TX2-32 H12xxxxx-29

Design and dimensions shown may be changed without prior notice

## // SKIVE FERRULE FOR STANDARD FITTINGS

Hose	Table n°	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-40	-48
		DN 5 3/16"	DN 6 1/4"	DN 8 5/16"	DN 10 3/8"	DN 12 1/2"	DN 16 5/8"	DN 19 3/4"	DN 25 1"	DN 32 1 1/4"	DN 38 1 1/2"	DN 51 2"	DN 63 2 1/2"	DN 76 3"
FLEXOPAK 1SC	208		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
AT3K - MINETUFF	239		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
ALFAJET 210	239		H1100SK1	H1100SK1	H1100SK1	H1100SK1								
FLEXOR 1SN (HF)	223		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
FLEXOR 1SN/R1AT - MINETUFF	223		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
1SN EVOLUTION HT 150	223		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
FLEXOPAK 2SC (HF)	222		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
2SC RAILWAY	222		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
ALFAJET 400	222		H1100SK1	H1100SK1	H1100SK1	H1100SK1								
FLEXOPAK 2 - MINETUFF	207		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100404	H1100104	H1100404		
FLEXOPAK 2 LT	207		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100404				
FLEXOPAK 2 TWIN - MINETUFF	207				H1100SK1	H1100SK1								
FLEXOR 2SN (HF)	235		H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404		
FLEXOR 2SN/R2AT - MINETUFF	235		H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404		
2SN EVOLUTION HT 150	235		H1100404		H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404		
FLEXOR ELEVATOR	184												H1100104	
ALFAFOREST	310				H1100404	H1100404	H1100404	H1100404	H1100404	H1100404				
ALFAFOREST LT	310				H1100404	H1100404	H1100404	H1100404	H1100404	H1100404				
ALFABIOTECH EVO 3000	320									H1100404	H1100404	H1100404		
ALFABIOTECH EVO 4000	321				H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404		
ALFABIOTECH EVO 5000	322						H1100404	H1100404	H1100404					
ALFABIOTECH EVO 5000 PLUS	323							H1100404						
ALFABIOTECH EVO 6000	324		H1100404		H1100404	H1100404								
ALFABIOTECH 2000	212												H1K00404	H1K00404
ALFABIOTECH 3000	229									H1100404	H1100404	H1100404*		
ALFABIOTECH 4000	187				H1100404	H1100404		H1100404	H1100404					
ALFABIOTECH 5000	188						H1100404	H1100404	H1100404					
ALFABIOTECH 5000 PLUS	211							H1100404						
ALFABIOTECH 6000	192		H1100404		H1100404	H1100404								
EVOLUTION 5000 LT	301						H1100404							
EVOLUTION 6000 LT	304		H1100404		H1100404	H1100404								

\* validated at 175 bar (2500 PSI) according to SAE R12 - table 229

Design and dimensions shown may be changed without prior notice

## // 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"	-56 DN 90 3 1/2"
ALFABIOTECH EVOLUTION 4000	708					H1700200	H1700200	H1700200	H1700200			
	309					H1400200	H1400200	H1400200	H1400200			
ALFABIOTECH EVOLUTION 5000	710				H1700200	H1700200	H1700200	H1700301	H1700301	H1T00600*		
	302				H1400200	H1400200	H1400200	H1400301	H1T00600*			
ALFABIOTECH EVOLUTION 5000 PLUS	712				H1700200	H1700200						
	303				H1400200	H1400200						
ALFABIOTECH EVOLUTION 6000	714			H1700301	H1700200	H1700200	H1700301	H1700301	H1T00600*			
	305			H1400301	H1400200	H1400200	H1400301	H1400301				
ALFABIOTECH 2000	287									H1400301		
ALFABIOTECH 3000	217									H1400301	H1T00600*	H1T00600*
ALFABIOTECH 4000	707					H1700200		H1700200	H1700200			
	195					H1400200		H1400200	H1400200			
ALFABIOTECH 5000	709				H1700200	H1700200	H1700200	H1700301	H1T00600*			
	189				H1400200	H1400200	H1400200	H1400301	H1400301			
	251								H1T00600*	H1T00600*	H1T00600*	
ALFABIOTECH 5000 PLUS	711				H1700200	H1700200						
	190				H1400200	H1400200						
ALFABIOTECH 6000	713			H1700301	H1700200	H1700200	H1700301	H1700301	H1T00600*			
	191			H1400301	H1400200	H1400200	H1400301	H1400301				
	272								H1T00600*			
EVOLUTION 4000 LT	708					H1700200	H1700200	H1700200	H1700200			
	309						H1400200	H1400200	H1400200			
EVOLUTION 5000 LT	715				H1700200	H1700200	H1700200	H1700301	H1700301			
	311				H1400200	H1400200	H1400200	H1400301	H1T00600*			
EVOLUTION 6000 LT	714			H1700301	H1700200	H1700200	H1700301	H1700301	H1T00600*			
	305			H1400301	H1400200	H1400200	H1400301	H1400301				

\* suitable with only Alfagomma H1T special inserts

## // NO SKIVE FERRULE FOR MULTISPIRAL 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"
ALFABIOTECH 4000	275							H1300NS4	H1300NS4		
ALFABIOTECH 5000 - 4S	276				H1300NS4	H1300NS4	H1300NS4				
ALFABIOTECH 5000 - 6S	280							H1300NS6	H1300NS6		
ALFABIOTECH 5000 PLUS	277				H1300NS4	H1300NS4					
ALFABIOTECH 6000 - 4S	278				H1300NS4	H1300NS4					
ALFABIOTECH 6000 - 6S	282						H1300NS6				

## // SKIVE FERRULE FOR MULTISPIRAL 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"
ALFABIOTECH 3000	286								H1300SK4		
ALFABIOTECH 4000	264							H1300SK4	H1300SK4		
ALFABIOTECH 5000	265				H1300SK4	H1300SK4	H1300SK4				
ALFABIOTECH 5000 PLUS	266				H1300SK4	H1300SK4					
ALFABIOTECH 6000	267				H1300SK4	H1300SK4					

Design and 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 32 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				
AT3K - MINETUFF	249	C12A	C12A	C12A	C12A							
ALFAJET 210	249	C12A	C12A	C12A	C12A							
FLEXOPAK 2SC (HF)	220	C12A	C12A	C12A	C12A	C12A	C12A	C12A				
ALFAJET 400	220	C12A	C12A	C12A	C12A							
FLEXOPAK 2 - MINETUFF	219	C12A	C12A	C12A	C12A	C12A	C12A	C12A				C12A
	228							C124	C124	C124	C124	
FLEXOPAK 2 LT	219	C12A	C12A	C12A	C12A	C12A	C12A	C12A				
	228							C124	C124			
FLEXOR 1SN (HF)	215	C12A	C12A	C12A	C12A	C12A	C12A	C12A	C124	C124	C124	
FLEXOR 1SN/R1AT - MINETUFF	215	C12A	C12A	C12A	C12A	C12A	C12A	C12A	C124	C124	C124	
1SN EVOLUTION HT 150	215	C12A	C12A	C12A	C12A	C12A	C12A	C12A	C124	C124	C124	
FLEXOR 2SN (HF)	216	C12A	C12A	C12A	C12A	C12A	C12A	C12A				
	227				C124	C124	C124	C124	C124	C124	C124	
FLEXOR 2SN/R2AT - MINETUFF	216	C12A	C12A	C12A	C12A	C12A	C12A	C12A				
	227				C124	C124	C124	C124	C124	C124	C124	
2SN EVOLUTION HT 150	216	C12A	C12A	C12A	C12A	C12A	C12A	C12A				
	227				C124	C124	C124	C124	C124	C124	C124	
ALFABIOTECH 3000	213								C124	C124	C124	
ALFABIOTECH 4000	241			C124	C124	C124	C124	C124		C126*	C126	
ALFABIOTECH 5000	244							C124				
	246					C126*	C126	C126	C126	C126	C126	
ALFABIOTECH 5500	TBA						C126*	C126*				
ALFABIOTECH 6000	214						C126	C126	C126			

\* under validation





**SAFE, RELIABLE  
& FULLY INTEGRATED  
FLUID HANDLING SYSTEM**

### **ALFAGOMMA COMPLETE SYSTEM**

- ▲ All products are designed, developed and field tested to **exceed international norms and fulfill extreme applications**
- ▲ The **total traceability system** ensures **maximum reliability** and **historical data integrity**
- ▲ Built to guarantee **total compatibility** and **maximum safety**
- ▲ **Carbon steel & stainless steel solutions**