

EXTRA FLEXIBLE

BIO OIL RESISTANT

HOSE RANGE



alfabiotech

- ▲ Specially designed for bio oil full compability
- ▲ **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%

SAE 100 R15 EN 16530
WP 28 MPa (4000 PSI)

// 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	4,946	3,33
1002576	48	76,0	3"	92,5	3,64	14,0	2000	56,0	8000	840	33,07	5,558	3,74

// 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 (in)	ID (mm)	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	1 1/4"	32,0	45,7	1,80	21,0	3000	84,0	12000	230	9,06	2,241	1,51
1002574	4WS	24	1 1/2"	38,0	51,8	2,04	21,0	3000	84,0	12000	420	16,54	2,741	1,85
1003035	4WS	32	2"	51,0	66,8	2,63	21,0	3000	84,0	12000	560	22,05	3,990	2,69
1003036	6WS	48	3"	76,0	95,6	3,76	21,0	3000	84,0	12000	900	35,43	7,950	5,35

Dimensions shown may be changed without prior notice

// ALFABIOTECH 4000 - MINETUFF



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	0,921	0,62
1001691	12	19,0	3/4"	29,5	1,16	28,0	4000	112,0	16000	120	4,72	1,019	0,69
1001692	16	25,0	1"	37,5	1,48	28,0	4000	112,0	16000	150	5,91	1,556	1,05
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	2,944	1,98
1002483	32	51,0	2"	66,8	2,63	28,0	4000	112,0	16000	530	20,87	4,454	3,00

// ALFABIOTECH 5000 - MINETUFF



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 (in)	ID (mm)	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	5/8"	16,0	26,3	1,04	35,0	5000	140,0	20000	140	5,51	0,927	0,63
1001694	4WS	12	3/4"	19,0	31,0	1,22	35,0	5000	140,0	20000	150	5,91	1,230	0,83
1001695	4WS	16	1"	25,0	38,0	1,50	35,0	5000	140,0	20000	180	7,09	1,710	1,15
1001696	4WS	20	1 1/4"	32,0	45,8	1,80	35,0	5000	140,0	20000	280	11,02	2,508	1,69
1001780	6WS	24	1 1/2"	38,0	54,8	2,16	35,0	5000	140,0	20000	500	19,69	4,000	2,69
1001779	6WS	32	2"	51,0	70,2	2,76	35,0	5000	140,0	20000	550	21,65	6,234	4,19
1003076	6WS	40	2 1/2"	63,0	82,8	3,26	35,0	5000	140,0	20000	820	32,28	7,570	5,09

// 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.

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	1,918	1,29

// 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: 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 (in)	ID (mm)	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	1/4"	6,0	17,3	0,68	45,0	6550	180,0	26200	60	2,36	0,518	0,35
1001698	4WS	6	3/8"	10,0	20,1	0,79	44,5	6450	178,0	25800	75	2,95	0,669	0,45
1001699	4WS	8	1/2"	13,0	22,8	0,90	42,0	6000	168,0	24000	90	3,54	0,745	0,51
1001700	4WS	10	5/8"	16,0	27,9	1,10	42,0	6000	168,0	24000	180	7,09	1,260	0,85
1001701	4WS	12	3/4"	19,0	30,8	1,21	42,0	6000	168,0	24000	210	8,27	1,429	0,97
1001702	4WS	16	1"	25,0	38,4	1,51	42,0	6000	168,0	24000	250	9,84	1,991	1,34
1002487	4WS	20	1 1/4"	32,0	46,1	1,81	42,0	6000	168,0	24000	445	17,52	2,883	1,94
1002485	6WS	20	1 1/4"	32,0	49,3	1,94	42,0	6000	168,0	24000	445	17,52	3,435	2,31
1002486	6WS	24	1 1/2"	38,0	56,5	2,22	42,0	6000	168,0	24000	530	20,87	4,546	3,06
1003505	6WS	32	2"	51,0	71,0	2,80	42,0	6000	168,0	24000	650	25,59	6,438	4,33