







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



smooth cover up to 1"



four high tensile steel spirals



six high tensile steel spirals

Tube: oil resistant synthetic rubber and biodegradable hydraulic fluids.

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.

Constant operation: -40 °C +121 °C (-40 °F +250 °F)

Safety factor: 1:4

// ALFABIOTECH 2000 – MINETUFF

ISO 18752

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

Reinforcement: four high tensile steel spirals. **Length:** 61 m from 1 1/4" to 3"

// ALFABIOTECH 3000 – MINETUFF

ISO 18752 - EXCEEDS SAE 100 R12

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

Reinforcement: four/six high tensile steel spirals. **Length:** 61 m from 1 1/4" to 3"

// ALFABIOTECH 4000 – MINETUFF

ISO 18752

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)
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

Reinforcement: four high tensile steel spirals. **Length:** random up to 1" - 61 m max over 1"1/4

// ALFABIOTECH 5000 – MINETUFF

ISO 18752

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	4,045	2,72
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

Reinforcement: four/six high tensile steel spirals. **Length:** random up to 1" - 61 m max over 1"1/4

// ALFABIOTECH 5000 PLUS – MINETUFF

ISO 18752

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

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

// ALFABIOTECH 6000 – MINETUFF

ISO 18752 - EXCEEDS SAE 100 R15

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

Reinforcement: four/six high tensile steel spirals. **Length:** random up to 1" - 61 m max over 1"1/4

alfabiotech

Specially designed for Bio oil full compatibility

Alfabiotech hoses are designed to be used with biodegradable hydraulic fluids, thanks to the use of an oil resistant synthetic rubber which makes it compatible also with lubricating oils and petroleum based hydraulic fluids. A new generation of hoses with improved resistance and prolonged life.

Bend radius up to 1/2 compared to SAE 100R

Alfabiotech are compact and very easy to bend hoses. Compared to standards SAE 100 R12/13/15 bend radius is reduced up to 50%.



Flexibility increase

The compact structure with four or six steel wire spirals makes Alfabiotech hoses very flexible and resistant to the highest working pressures. The lower weight makes Alfabiotech easier to handle with the minimum effort for assembling and installation.

Higher abrasion resistance, Minetuff and MSHA cover

The high abrasion resistance makes Alfabiotech hoses the ideal solution for heavy duty applications such as mining, forestry and construction large mobile equipments. Alfabiotech hoses cover is MSHA approved.

Impulse test according to ISO 18752

Alfabiotech hoses are tested according to ISO 18752 up to 1,000,000 cycles exceeding standard SAE 100R requirements.



HEADQUARTER

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