



# ALFABIOTECH



# 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%.



**alfabiotech**

**BEND RADIUS 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.

## alfabiotech 2000 – MINETUFF



### ISO 18752

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

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

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

**MSHA APPROVED**

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

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

**Safety factor:** 1:4

**Length:** 61 m from 1 1/4" to 3"

Item Code	↔			↔		↻		↻		↷		⚖	
	Dash	mm	in	mm	in	Mpa	psi	Mpa	psi	mm	in	kg/m	lb/ft
1002575	40	63,0	2 1/2"	79,00	3,11	14,0	2000	56,0	8000	720,0	28,35	4,630	3,12
1002576	48	76,0	3"	92,50	3,64	14,0	2000	56,0	8000	840,0	33,07	5,404	3,64

## alfabiotech 3000 – MINETUFF



### ISO 18752 - EXCEEDS SAE 100 R12

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

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

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

**MSHA APPROVED**

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

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

**Safety factor:** 1:4

**Length:** 61 m from 1 1/4" to 3"

Item Code	Const.	↔			↔		↻		↻		↷		⚖	
		Dash	mm	in	mm	in	Mpa	psi	Mpa	psi	mm	in	kg/m	lb/ft
1001690	4WS	20	32,0	1 1/4"	45,70	1,80	21,0	3000	84,0	12000	230,0	9,06	2,259	1,52
1002574	4WS	24	38,0	1 1/2"	51,80	2,04	21,0	3000	84,0	12000	420,0	16,54	2,758	1,86
1003035	4WS	32	51,0	2"	66,80	2,63	21,0	3000	84,0	12000	560,0	22,05	3,989	2,69
1003036	6WS	48	76,0	3"	95,60	3,76	21,0	3000	84,0	12000	900,0	35,43	7,950	5,35

**alfabiotech**  
**4000 – MINETUFF**



**ISO 18752**

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

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

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

**MSHA APPROVED**

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

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

**Safety factor:** 1:4

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

Item Code	↔			↔		↻		↻		⤴		⚖	
	Dash	mm	in	mm	in	Mpa	psi	Mpa	psi	mm	in	kg/m	lb/ft
1003797	08	13,0	1/2"	23,00	0,91	28,0	4000	112,0	16000	90,0	3,54	0,747	0,51
1001691	12	19,0	3/4"	29,50	1,16	28,0	4000	112,0	16000	120,0	4,72	1,019	0,69
1001692	16	25,0	1"	37,50	1,48	28,0	4000	112,0	16000	150,0	5,91	1,637	1,11
1002484	20	32,0	1 1/4"	45,70	1,80	28,0	4000	112,0	16000	260,0	10,24	2,264	1,53
1002502	24	38,0	1 1/2"	51,80	2,04	29,0	4200	116,0	16800	420,0	16,54	2,952	1,99
1002483	32	51,0	2"	66,80	2,63	28,0	4000	112,0	16000	530,0	20,87	4,475	3,01

**alfabiotech**  
**5000 – MINETUFF**



**ISO 18752**

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

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

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

**MSHA APPROVED**

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

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

**Safety factor:** 1:4

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

Item Code	Const.	↔			↔		↻		↻		⤴		⚖	
		Dash	mm	in	mm	in	Mpa	psi	Mpa	psi	mm	in	kg/m	lb/ft
1001693	4WS	10	16,0	5/8"	26,30	1,04	35,0	5000	140,0	20000	140,0	5,51	0,931	0,63
1001694	4WS	12	19,0	3/4"	31,00	1,22	35,0	5000	140,0	20000	150,0	5,91	1,230	0,83
1001695	4WS	16	25,0	1"	37,60	1,48	35,0	5000	140,0	20000	180,0	7,09	1,680	1,13
1001696	4WS	20	32,0	1 1/4"	45,80	1,80	35,0	5000	140,0	20000	280,0	11,02	2,711	1,70
1001780	6WS	24	38,0	1 1/2"	56,50	2,22	35,0	5000	140,0	20000	500,0	19,69	4,483	3,02
1001779	6WS	32	51,0	2"	70,20	2,76	35,0	5000	140,0	20000	550,0	21,65	6,159	4,14
1003076	6WS	40	63,0	2 1/2"	82,80	3,26	35,0	5000	140,0	20000	820,0	32,28	7,570	5,08
1003106	6WS	48	76,0	3"	95,60	3,76	35,0	5000	87,5	12.500	900,0	35,43	7,950	5,33

**alfabiotech**  
**5000 PLUS – MINETUFF**



**ISO 18752**

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

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

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

**MSHA APPROVED**

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

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

**Safety factor:** 1:4

**Length:** random

Item Code	↔			↔		↻		↻		⤴		⚖	
	Dash	mm	in	mm	in	Mpa	psi	Mpa	psi	mm	in	kg/m	lb/ft
1001712	12	19,0	3/4"	31,00	1,22	38,0	5500	152,0	22040	180,0	7,09	1,324	0,89
1001713	16	25,0	1"	38,30	1,51	38,0	5500	152,0	22040	210,0	8,27	1,923	1,30

**alfabiotech**  
**6000 – MINETUFF**



**ISO 18752 - EXCEEDS SAE 100 R15**

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

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

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

**MSHA APPROVED**

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

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

**Safety factor:** 1:4

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

Item Code	Const.	↔			↔		↻		↻		⤴		⚖	
		Dash	mm	in	mm	in	Mpa	psi	Mpa	psi	mm	in	kg/m	lb/ft
1001697	4WS	04	6,0	1/4"	17,30	0,68	45,0	6550	180,0	26200	60,0	2,36	0,540	0,37
1001698	4WS	06	10,0	3/8"	20,10	0,79	44,5	6450	178,0	25800	75,0	2,95	0,648	0,44
1001699	4WS	08	13,0	1/2"	23,00	0,91	42,0	6000	168,0	24000	90,0	3,54	0,747	0,51
1001700	4WS	10	16,0	5/8"	28,20	1,11	42,0	6000	168,0	24000	180,0	7,09	1,198	0,81
1001701	4WS	12	19,0	3/4"	31,40	1,24	42,0	6000	168,0	24000	210,0	8,27	1,429	0,97
1001702	4WS	16	25,0	1"	38,20	1,50	42,0	6000	168,0	24000	250,0	9,84	1,950	1,32
1002487	4WS	20	32,0	1 1/4"	46,10	1,81	42,0	6000	168,0	24000	445,0	17,52	2,920	1,97
1002485	6WS	20	32,0	1 1/4"	49,30	1,94	42,0	6000	168,0	24000	445,0	17,52	3,401	2,29
1002486	6WS	24	38,0	1 1/2"	56,50	2,22	42,0	6000	168,0	24000	530,0	20,87	4,480	3,02
1003505	6WS	32	51,0	2"	71,00	2,80	42,0	6000	168,0	24000	650,0	25,59	6,500	4,37



## alfabiotech

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



### alfabiotech

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



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