



# ALFAGOMMA

## alfabiotech

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



- **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**

## alfabiotech 3000

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

**Reinforcement:** four high tensile steel spirals (4S)

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

**MINETUFF COVER**

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

**Designed and tested according to ISO 18752 exceeds SAE 100 R12**

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

**Length:** 61 m from 1 1/4" to 2" - 30,5 m for 2 1/2"



Item code	Description	Constr.	↔			↔		⌚		⌚		⌒		⚖	
			DN	inch	Dash	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/ft
1001690	ABT3K-20 DN32	4S	32	1 1/4	-20	46,4	1,83	21	3000	84	12000	230	2,24	2,245	1,51

## alfabiotech 4000

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

**Reinforcement:** four high tensile steel spirals (4S)

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

**MINETUFF COVER**

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

**Designed and tested according to ISO 18752**

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

**Length:** Random up to 1" - 61 m from 1 1/4" to 2"



Item code	Description	Constr.	↔			↔		⌚		⌚		⌒		⚖	
			DN	inch	Dash	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/ft
1001691	ABT4K-12 DN20	4S	20	3/4	-12	30,2	1,19	28	4000	112	16000	120	4,72	1,228	0,82
1001692	ABT4K-16 DN25	4S	25	1	-16	38,2	1,50	28	4000	112	16000	150	5,90	1,644	1,10
1002484	ABT4K-20 DN32	4S	32	1 1/4	-20	46,4	1,83	28	4000	112	16000	260	10,24	2,245	1,51
1002502	ABT4K-24 DN38	4S	38	1 1/2	-24	51,8	2,04	29	4200	116	16800	420	16,80	2,860	1,92
1002483	ABT4K-32 DN51	4S	51	2	-32	67,6	2,66	28	4000	112	16000	630	24,80	4,474	3,00

## alfabiotech 5000

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

**Reinforcement:** four/six high tensile steel spirals (4S/6S)

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

**MINETUFF COVER**

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

**Designed and tested according to ISO 18752**

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

**Length:** Random up to 1" - 61 m from 1 1/4" to 1 1/2"

30,5 m from 2" to 2 1/2"



Item code	Description	Constr.	↔			↔		⌚		⌚		⌒		⚖	
			DN	inch	Dash	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/ft
1001693	ABT5K-10 DN16	4S	16	5/8	-10	26,5	1,04	35	5000	140	20000	140	5,51	0,873	0,59
1001694	ABT5K-12 DN20	4S	20	3/4	-12	31,6	1,24	35	5000	140	20000	150	5,90	1,228	0,82
1001695	ABT5K-16 DN25	4S	25	1	-16	39,0	1,54	35	5000	140	20000	180	7,09	1,934	1,30
1001696	ABT5K-20 DN32	4S	32	1 1/4	-20	45,1	1,77	35	5000	140	20000	280	11,02	2,272	1,52
1001780	ABT5K-24 DN38	6S	38	1 1/2	-24	57,3	2,26	35	5000	140	20000	500	19,69	4,483	3,01
1001779	ABT5K-32 DN51	6S	51	2	-32	71,0	2,80	35	5000	140	20000	550	21,65	6,264	4,20

## alfabiotech 5000 PLUS

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

**Reinforcement:** four high tensile steel spirals (4S)

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

**MINETUFF COVER**

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

**Designed and tested according to ISO 18752**

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

**Length:** Random



Item code	Description	Constr.	↔			↔		⌈		⌈		⌒		⌚	
			DN	inch	Dash	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/ft
1001712	ABT5KP-12 DN20	4S	20	3/4	-12	32,0	1,26	38	5500	152	22000	180	7,09	1,324	0,89
1001713	ABT5KP-16 DN25	4S	25	1	-16	38,7	1,52	38	5500	152	22000	250	9,84	1,930	1,30

## alfabiotech 6000

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

**Reinforcement:** four/six high tensile steel spirals (4S/6S)

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

**MINETUFF COVER**

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

**Designed and tested according to ISO 18752 exceeds SAE 100 R15**

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

**Length:** Random up to 1" - 61 m from 1 1/4" to 1 1/2"

30,5 m for 2"



Item code	Description	Constr.	↔			↔		⌈		⌈		⌒		⌚	
			DN	inch	Dash	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/ft
1001697	ABT6K-4 DN6	4S	6	1/4	-4	17,5	0,69	45	6525	180	26100	60	2,36	0,467	0,31
1001698	ABT6K-6 DN10	4S	10	3/8	-6	20,5	0,81	44,5	6450	178	25800	75	2,95	0,550	0,37
1001699	ABT6K-8 DN12	4S	12	1/2	-8	23,6	0,93	42	6000	168	24000	90	3,54	0,749	0,50
1001700	ABT6K-10 DN16	4S	16	5/8	-10	28,6	1,13	42	6000	168	24000	180	7,09	1,190	0,80
1001701	ABT6K-12 DN20	4S	20	3/4	-12	31,8	1,25	42	6000	168	24000	210	8,27	1,468	0,99
1001702	ABT6K-16 DN25	4S	25	1	-16	38,4	1,51	42	6000	168	24000	280	11,02	2,026	1,36
1002487	ABT6K-20 DN32	4S	32	1 1/4	-20	47,1	1,85	42	6000	168	24000	445	17,52	2,916	1,96
1002485	ABT6K-20 DN32	6S	32	1 1/4	-20	50,2	1,98	42	6000	168	24000	445	17,52	3,470	2,33
1002486	ABT6K-24 DN38	6S	38	1 1/2	-24	57,3	2,26	42	6000	168	24000	560	22,05	4,480	3,01

# 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 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.