

POWERFLEXBIO



POWERFLEX^{Bio} 3000 – HI-TUFF

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)

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
1001742	20	32,0	1 1/4"	45,70	1,80	21,0	3000	84,0	12000	230,0	9,06	2,245	1,51

Notes: also available with TUFLEX cover

POWERFLEX^{Bio} 4000 – HI-TUFF

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)

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
1001743	12	19,0	3/4"	29,50	1,16	28,0	4000	112,0	16000	120,0	4,72	1,019	0,69
1001744	16	25,0	1"	37,50	1,48	28,0	4000	112,0	16000	150,0	5,91	1,637	1,11
1002490	20	32,0	1 1/4"	46,40	1,83	28,0	4000	112,0	16000	260,0	10,24	2,264	1,53
1002799	24	38,0	1 1/2"	51,80	2,04	29,0	4200	116,0	16800	420,0	16,54	2,864	1,93
1002491	32	51,0	2"	67,60	2,66	28,0	4000	112,0	16000	630,0	24,80	4,475	3,01

Notes: also available with TUFLEX cover

POWERFLEX^{Bio} 5000 – HI-TUFF

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)

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



Item Code	Constr.	↔↔↔			↔↔↔↔		↻		↻		⤴		⚖	
		Dash	mm	in	mm	in	Mpa	psi	Mpa	psi	mm	in	kg/m	lb/ft
1001745	4WS	10	16,0	5/8"	25,90	1,02	35,0	5000	140,0	20000	140,0	5,51	0,873	0,59
1001746	4WS	12	19,0	3/4"	31,00	1,22	35,0	5000	140,0	20000	150,0	5,91	1,228	0,83
1001747	4WS	16	25,0	1"	37,80	1,49	35,0	5000	140,0	20000	180,0	7,09	1,678	1,13
1001748	4WS	20	32,0	1 1/4"	45,80	1,80	35,0	5000	140,0	20000	280,0	11,02	2,521	1,70
1001946	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
1001947	6WS	32	51,0	2"	70,20	2,76	35,0	5000	140,0	20000	550,0	21,65	6,159	4,14

Notes: also available with TUFLEX cover

POWERFLEXBio 5000 PLUS – HI-TUFF

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)

Length: random



Item Code	↔			↔		↻		↻		∩		⊞	
	Dash	mm	in	mm	in	Mpa	psi	Mpa	psi	mm	in	kg/m	lb/ft
1001749	12	19,0	3/4"	31,40	1,24	38,0	5500	152,0	22040	180,0	7,09	1,338	0,90
1001734	16	25,0	1"	38,00	1,50	38,0	5500	152,0	22040	210,0	8,27	1,918	1,29

Notes: also available with TUFLEX cover

POWERFLEXBio 6000 – HI-TUFF

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)

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
1001751	4WS	04	6,0	1/4"	16,90	0,67	45,0	6550	180,0	26200	60,0	2,36	0,540	0,37
1001752	4WS	06	10,0	3/8"	19,90	0,78	44,5	6450	178,0	25800	75,0	2,95	0,620	0,42
1001735	4WS	08	13,0	1/2"	23,00	0,91	42,0	6000	168,0	24000	90,0	3,54	0,749	0,51
1001736	4WS	10	16,0	5/8"	28,00	1,10	42,0	6000	168,0	24000	180,0	7,09	1,190	0,80
1001737	4WS	12	19,0	3/4"	31,20	1,23	42,0	6000	168,0	24000	210,0	8,27	1,429	0,97
1001738	4WS	16	25,0	1"	37,80	1,49	42,0	6000	168,0	24000	250,0	9,84	2,026	1,37
1002492	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
1002493	6WS	20	32,0	1 1/4"	49,40	1,94	42,0	6000	168,0	24000	445,0	17,52	3,401	2,29
1002494	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

Notes: also available with TUFLEX cover

NEW EXTRA FLEXIBLE BIO OIL RESISTANT HOSE RANGE



SPECIALLY DESIGNED FOR BIO OIL FULL COMPATIBILITY

Powerflexbio 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.

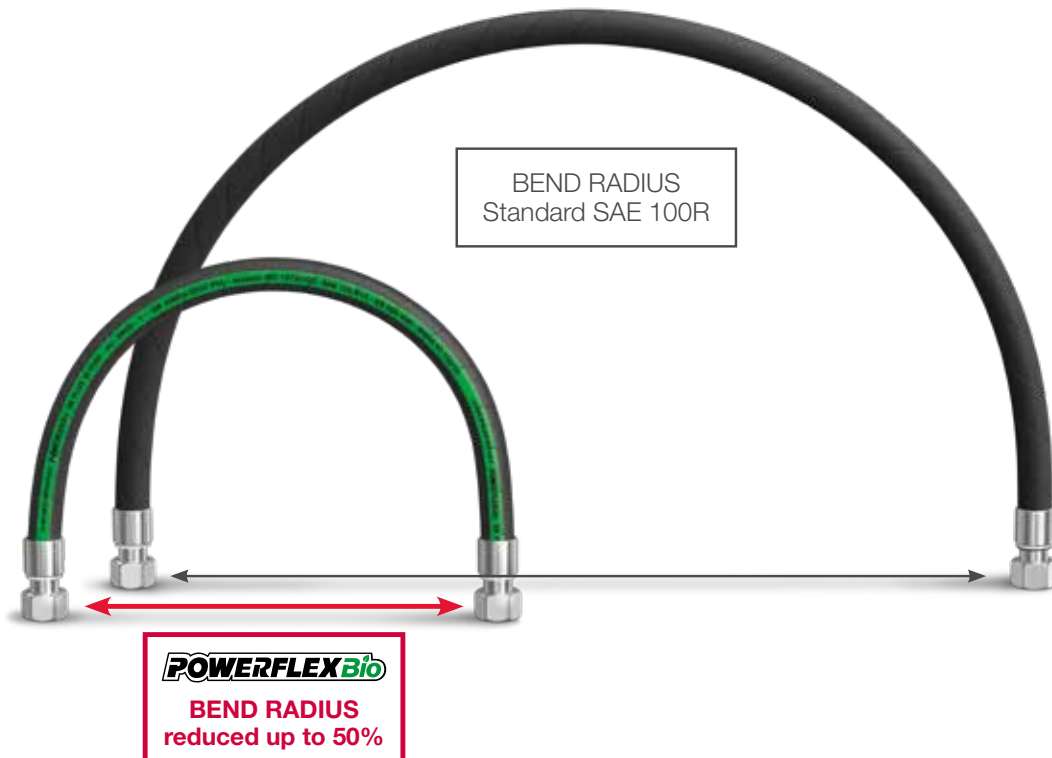


BEND RADIUS UP TO 1/2 COMPARED TO SAE 100R

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

POWERFLEXBIO ADVANTEGES

- 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



Flexibility increase

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

Higher abrasion resistance, Minetuff and MSHA cover

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

Impulse test according to ISO 18752

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