

## POWERFLEXBIO EXTRA



# POWERFLEX<sup>Bio</sup> EXTRA

**SPECIALLY DESIGNED FOR TOP PERFORMANCE AND COMPATIBILITY WITH BIODEGRADABLE HYDRAULIC OILS**

Suitable for applications using conventional hydraulic oils, lubricants, antifreeze solutions air and water.

**EXTREME BEND RADIUS & FLEXIBILITY**

Powerflexbio Extra features unprecedented bend radius - **up to 60%** improvement on ISO 18752 and SAE 100 requirements.

**COMPACT DESIGN**

Compact and extremely flexible construction will allow effortless flexing in operation and during installation.

Specially designed for long service life in very demanding applications where a compact design and high pulsating pressure and tight bend radius are required.

**HIGH ABRASION & FIRE RESISTANCE**

Powerflexbio hi-tuff cover is specially designed for **heavy duty mining, forestry, construction, oil & gas applications** where MSHA fire resistance, long service life and best performance are fundamental.

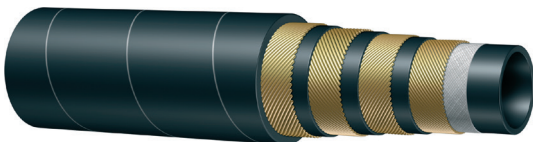
**EXCEEDS 1,000,000 IMPULSE TEST ACCORDING TO ISO 18752**

## POWERFLEX<sup>Bio</sup> EXTRA

### COMPACT DESIGN EXTREME BEND RADIUS AND FLEXIBILITY

## // HOSE

### // POWERFLEXBIO EXTRA 3000 - HI-TUFF **NEW**



**MSHA**

**ISO 18752**

**Tube:** petroleum and biodegradable hydraulic fluid resistant synthetic rubber.

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

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

**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water. Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

**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)
1004861	20	32,0	1 1/4"	44,9	1,77	21,0	3000	84,0	12000	210	8,27	1,876	1,27
1004862	24	38,0	1 1/2"	50,6	1,99	21,0	3000	84,0	12000	250	9,84	2,357	1,59
1004863	32	51,0	2"	64,7	2,55	21,0	3000	84,0	12000	318	12,52	3,537	2,38

**// POWERFLEXBIO EXTRA 4000**  
**- HI-TUFF NEW**



**ISO 18752**



**Tube:** petroleum and biodegradable hydraulic fluid resistant synthetic rubber.

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

**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.

**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water. Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

**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)
1004895	8	13,0	1/2"	22,5	0,89	28,0	4000	112,0	16000	90	3,54	0,624	0,42
1004864	12	19,0	3/4"	29,0	1,14	28,0	4000	112,0	16000	120	4,72	0,978	0,66
1004865	16	25,0	1"	37,2	1,46	28,0	4000	112,0	16000	150	5,91	1,479	1,00
1004866	20	32,0	1 1/4"	44,2	1,74	28,0	4000	112,0	16000	210	8,27	2,214	1,49
1004867	24	38,0	1 1/2"	50,6	1,99	29,0	4200	116,0	16800	250	9,84	2,610	1,76
1004868	32	51,0	2"	64,7	2,55	28,0	4000	112,0	16000	318	12,52	4,001	2,69

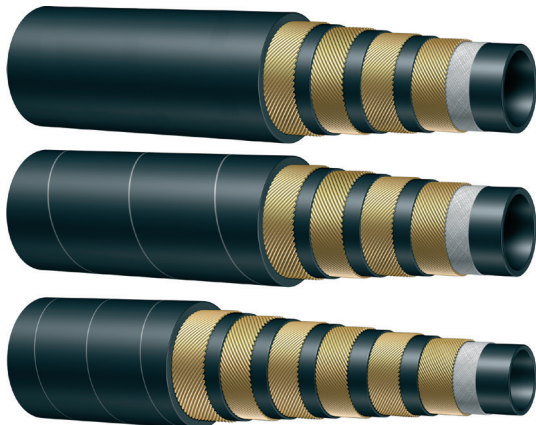
**Tuflex:** version available on request. The Ultra High Molecular Weight Polyethylene (UHMWPE) cover is specially designed for extreme applications where low friction and very high abrasion or underwater resistance are necessary.

**Note:** minimum order quantity could apply on specific part numbers.

**// POWERFLEXBIO EXTRA 5000**  
**- HI-TUFF NEW**



**ISO 18752**



**Tube:** petroleum and biodegradable hydraulic fluid resistant synthetic rubber.

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

**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.

**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water. Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

**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 (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)
1004869	4WS	10	16,0	5/8"	25,4	1,00	35,0	5000	140,0	20000	100	3,94	0,845	0,57
1004870	4WS	12	19,0	3/4"	29,4	1,16	35,0	5000	140,0	20000	120	4,72	1,166	0,79
1004871	4WS	16	25,0	1"	37,4	1,47	35,0	5000	140,0	20000	150	5,91	1,634	1,10
1004872	4WS	20	32,0	1 1/4"	44,0	1,73	35,0	5000	140,0	20000	210	8,27	2,214	1,49
1004873	6WS	24	38,0	1 1/2"	54,8	2,16	35,0	5000	140,0	20000	250	9,84	3,924	2,64
1004874	6WS	32	51,0	2"	68,7	2,70	35,0	5000	140,0	20000	318	12,52	5,787	3,89

**Tuflex:** version available on request. The Ultra High Molecular Weight Polyethylene (UHMWPE) cover is specially designed for extreme applications where low friction and very high abrasion or underwater resistance are necessary.

**Note:** minimum order quantity could apply on specific part numbers.

**// POWERFLEXBIO EXTRA 5500**  
**- HI-TUFF NEW**



**MSHA**

**ISO 18752**

**Tube:** petroleum and biodegradable hydraulic fluid resistant synthetic rubber.

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

**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.

**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water. Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

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

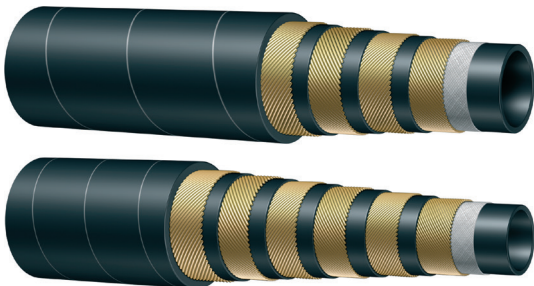
**Length:** random

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)
1004875	12	19	3/4"	30,2	1,19	38,0	5500	152,0	22040	120	4,72	1,276	0,86
1004876	16	25	1"	37,4	1,47	38,0	5500	152,0	22040	150	5,91	1,817	1,23

**Tufflex:** version available on request. The Ultra High Molecular Weight Polyethylene (UHMWPE) cover is specially designed for extreme applications where low friction and very high abrasion or underwater resistance are necessary.

**Note:** minimum order quantity could apply on specific part numbers.

**// POWERFLEXBIO EXTRA 6000**  
**- HI-TUFF NEW**



**MSHA**

**ISO 18752 - exceeds SAE 100 R15**

**Tube:** petroleum and biodegradable hydraulic fluid resistant synthetic rubber.

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

**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.

**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water. Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

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

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

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1004877	4WS	4	6,0	1/4"	17,0	0,67	45,0	6550	180,0	26200	60	2,36	0,510	0,35
1004878	4WS	6	10,0	3/8"	19,8	0,78	44,5	6450	178,0	25800	75	2,95	0,615	0,42
1004879	4WS	8	13,0	1/2"	22,5	0,89	42,0	6000	168,0	24000	90	3,54	0,710	0,48
1004880	4WS	10	16,0	5/8"	27,8	1,09	42,0	6000	168,0	24000	100	3,94	1,190	0,80
1004881	4WS	12	19,0	3/4"	30,6	1,20	42,0	6000	168,0	24000	120	4,72	1,371	0,93
1004882	4WS	16	25,0	1"	38,0	1,50	42,0	6000	168,0	24000	150	5,91	1,926	1,30
1004883	6WS	20	32,0	1 1/4"	47,6	1,87	42,0	6000	168,0	24000	225	8,86	2,982	2,01
1004884	6WS	24	38,0	1 1/2"	54,4	2,14	42,0	6000	168,0	24000	305	12,01	4,155	2,80
1004885	6WS	32	51,0	2"	68,7	2,70	42,0	6000	168,0	24000	380	14,96	6,074	4,09

**Tufflex:** version available on request. The Ultra High Molecular Weight Polyethylene (UHMWPE) cover is specially designed for extreme applications where low friction and very high abrasion or underwater resistance are necessary.

**Note:** minimum order quantity could apply on specific part numbers.



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