

POWERFLEXBIO EXTRA



POWERFLEX^{Bio} 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^{Bio} 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



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 up to 1" - 61 m max over 1 1/4"

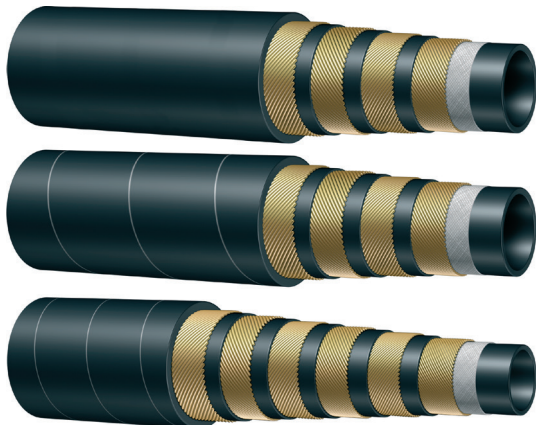
| Item Code | ID (Dash) | ID (mm) | ID (in) | OD (mm) | OD (in) | WP (Mpa) | WP (psi) | BP (Mpa) | BP (psi) | BR (mm) | BR (in) | Weight (kg/m) | Weight (lb/ft) |
|-----------|-----------|---------|---------|---------|---------|----------|----------|----------|----------|---------|---------|---------------|----------------|
| 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



MSHA

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

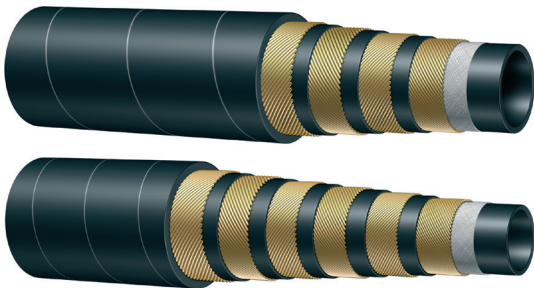
| Item Code | ID (Dash) | ID (mm) | ID (in) | OD (mm) | OD (in) | WP (Mpa) | WP (psi) | BP (Mpa) | BP (psi) | BR (mm) | BR (in) | Weight (kg/m) | Weight (lb/ft) |
|-----------|-----------|---------|---------|---------|---------|----------|----------|----------|----------|---------|---------|---------------|----------------|
| 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 |

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 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"

| 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) |
|-----------|---------|-----------|---------|---------|---------|---------|----------|----------|----------|----------|---------|---------|---------------|----------------|
| 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 |

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.



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