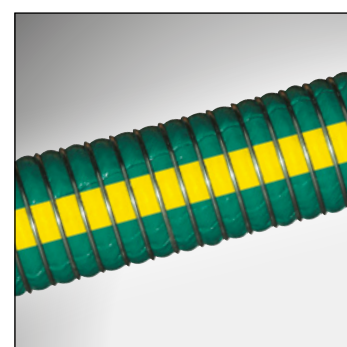


Multi-Bio Green

Multi-Bio Green hoses are designed specially for conveying continuous Bio-Diesel Products. The hose is lined with material which will not be effected by the Esterified Vegetable Oils, which are an ingredient of Bio-Diesel Products. There are two different types of hoses depending on application: Multi-Bio Green lined with nylon for intermittent service only. Nylon is porous and product can not be left in the hose while not in service. Multi-Bio Green lined with P.T.F.E for an indefinite service life. The P.T.F.E. liner prevents the hose against any absorption of the product. The hose is easy to flush and to clean and therefore quickly reusable for other applications.



| Multi-Bio Green | P.T.F.E. lining | Nylon | Application |
|-----------------|--------------------|----------------------|---|
| Light duty | Code nr. 310713100 | Code nr. 31071917100 | Tank truck and railcar |
| Standard duty | Code nr. 311013100 | Code nr. 31101917100 | Tank truck, railcar and in plant transfer |
| Heavy duty | Code nr. 311413100 | Code nr. 31141917100 | Heavy duty marine operations and ship and barge loading and unloading |

Certifications

Multi-Bio Green hoses are produced and tested according international standards like EN 13765. The lining material has been tested on there resistance against Biofuel.

Construction

| | |
|---------------------|---|
| Inner wire: | Galvanized steel |
| Lining: | Nylon or P.T.F.E. |
| Outer cover: | Polyester PVC coated green with yellow stripe |
| Outer wire: | Galvanized steel |

Physical properties

| | |
|-------------------------------|--|
| Maximum elongation: | 10% on proof pressure |
| Electrical resistance: | 2,5 Ohm p/mtr < 2" |
| | 1,0 Ohm p/mtr >= 2" |
| Maximum twist: | 10° p/m |
| Vacuum range: | 0,9 bar |
| Min. burst pressure: | 5x working pressure (safety fact 5:1) |

| | |
|------------------------------|------------------|
| Max flowrate: | on request |
| Max tensile strength: | on request |
| Pressure losses: | on request |
| Temperature range: | -30°C upto +80°C |

Multi-Bio Green

Multi-Bio Green Light Duty, Code 310713100 / 31071917100

| Bore diameter | | Max. work. pressure | | Bend radius | | Weight | | Maximum length | |
|---------------|-----|---------------------|-----|-------------|-----|--------|------|----------------|----|
| inches | mm | PSI | bar | inches | mm | lbs/Ft | Kg/m | Ft | m |
| 1 | 28 | 100 | 7 | 4,9 | 125 | 0,55 | 0,85 | 100 | 30 |
| 1,5 | 40 | 100 | 7 | 5,9 | 150 | 0,75 | 1,15 | 100 | 30 |
| 2 | 50 | 100 | 7 | 7,9 | 200 | 0,85 | 1,3 | 100 | 30 |
| 2,5 | 65 | 100 | 7 | 8,3 | 210 | 1,45 | 2,2 | 100 | 30 |
| 3 | 80 | 100 | 7 | 11,8 | 300 | 1,8 | 2,7 | 100 | 30 |
| 4 | 100 | 100 | 7 | 15,7 | 400 | 2,95 | 4,4 | 100 | 30 |

Multi-Bio Green Standard Duty, Code 311013100 / 31101917100

| Bore diameter | | Max. work. pressure | | Bend radius | | Weight | | Maximum length | |
|---------------|-----|---------------------|------|-------------|-----|--------|------|----------------|----|
| inches | mm | PSI | bar | inches | mm | lbs/Ft | Kg/m | Ft | m |
| 1 | 28 | 150 | 10,5 | 4,9 | 125 | 0,65 | 0,95 | 100 | 30 |
| 1,5 | 40 | 150 | 10,5 | 5,9 | 150 | 1,15 | 1,7 | 100 | 30 |
| 2 | 50 | 150 | 10,5 | 7,9 | 200 | 1,2 | 1,8 | 100 | 30 |
| 2,5 | 65 | 150 | 10,5 | 7,9 | 200 | 1,95 | 2,9 | 100 | 30 |
| 3 | 80 | 150 | 10,5 | 11,8 | 300 | 2,35 | 3,5 | 100 | 30 |
| 4 | 100 | 150 | 10,5 | 15,7 | 400 | 3,65 | 5,5 | 100 | 30 |

Multi-Bio Green Heavy Duty, Code 311413100 / 31141917100

| Bore diameter | | Max. work. pressure | | Bend radius | | Weight | | Maximum length | |
|---------------|-----|---------------------|------|-------------|------|--------|------|----------------|----|
| inches | mm | PSI | bar | inches | mm | lbs/Ft | Kg/m | Ft | m |
| 3 | 80 | 200 | 14 | 13,8 | 350 | 3 | 4,5 | 100 | 30 |
| 4 | 100 | 200 | 14 | 15,7 | 400 | 5,25 | 7,9 | 100 | 30 |
| 5 | 125 | 200 | 14 | 20,1 | 510 | 6,45 | 9,7 | 100 | 30 |
| 6 | 150 | 200 | 14 | 22,6 | 575 | 8,25 | 12,4 | 100 | 30 |
| 8 | 200 | 200 | 14 | 31,5 | 800 | 14,55 | 21,8 | 100 | 30 |
| 10 | 250 | 200 | 14 | 39,37 | 1000 | 17,8 | 26,7 | 100 | 30 |
| 12 | 300 | 150 | 10,5 | 47,24 | 1200 | 21,1 | 32 | 59 | 18 |

This information is for guidance only, dimensions and weights shown are approximate.

We reserve the right to alter or amend specifications as deemed necessary.

