

# GUTTELING BIO GREEN



OIL & GAS

Composite hoses/Biofuel



## APPLICATIONS

GUTTELING 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: GUTTELING BIO GREEN lined with nylon for intermittent service only. GUTTELING BIO GREEN lined with PTFE for an indefinite service life. The PTFE 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.

<b>Light duty</b>	Tank truck and railcar
<b>Standard duty</b>	Tank truck, railcar and in plant transfer
<b>Heavy duty</b>	Heavy duty marine operations and ship and barge loading and unloading

## PHYSICAL PROPERTIES

- Maximum elongation: 10% on proof pressure
- Electrical resistance: max. 100 Ohm per length
- 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 up to +100°C (-22F up to +212F)

## TECHNICAL DESCRIPTION

<b>Inner wire:</b>	Galvanized steel or Stainless steel
<b>Lining:</b>	Nylon or PTFE
<b>Outer cover:</b>	Polyester PVC coated green with yellow stripe
<b>Outer wire:</b>	Galvanized steel or Stainless steel

## STANDARD/APPROVAL

GUTTELING BIO GREEN hoses are produced and tested according international standards like EN 13765.

EN

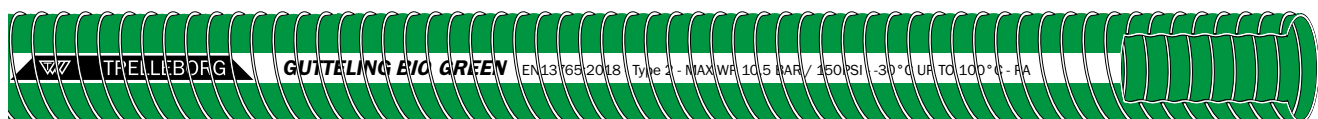
The lining material has been tested on there resistance against Biofuel.

## COMPLEMENTARY INFORMATION

GUTTELING BIO GREEN hoses can be supplied with Galvanized steel or Stainless steel 316 internal and external wire.

Other cover colors available upon request.

Assembled lengths are delivered with pressure test certificate.





## Light Duty, 7 bar

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

## Standard Duty, type 2

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

## Heavy Duty, type 3

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	200	14	47,24	1200	21,1	32	82	25

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

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

