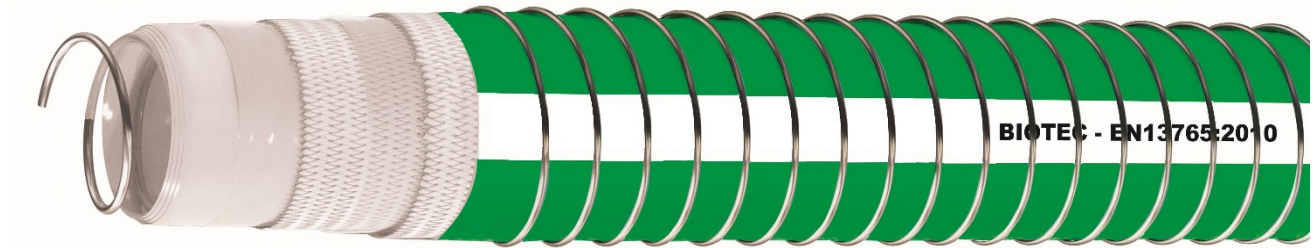


## Composite hoses BIO TEC



**BIOTEC** is a multi-layer thermoplastic hose, manufactured from several layers of polypropylene, polyethylene and polyester films, reinforced with high tensile fabrics and an external Class 1 Fire retardant cover. The inner layer, in direct contact with conveyed product, is made from a special film, which is 100% resistant to aromatics and MTBE. **BIOTEC** design includes a seamless UHMW PLT tubular film, avoiding any possible leak and guaranteeing a gas-tight construction.

**Application:** **BIOTEC** assemblies are suction and discharge hoses, particularly suitable for handling and transfer of alternative fuels, incl. **Bioethanol** (up to E98), **Biodiesel\*** (up to B100) as well as traditional petroleum-based fuels like **Gasoline and Diesel**, requiring an excellent chemical resistance, lightweight and flexibility. These hoses are designed for suction & discharge operation at temperatures from - 40 to +100°C.

\*Applies to biodiesels which meet ASTM D6751 criteria

- **Non-permeable construction** – won't swell or become stiff like conventional thermoplastic/rubber hoses.
- **Long life** reduces operating costs.
- **Lightweight** – much lighter than conventional thermoplastic/rubber hoses.
- **Superior flexibility** – especially at low temperatures.
- **Electrical continuity** - Electrical continuity is achieved by the two wires bonded to the end fittings. This conducts accumulated charge and avoids static flash. The electric resistance of hose assemblies is less than 1 Ω/m, as required by EN ISO 8031.



Upon request **BIOTEC** hoses are manufactured with a special outer antistatic cover acc. to the EU-Directive 94/9/EC "ATEX" and earth cable !

All our composite hoses are 100% antistatic and electrically conducting, meeting the EN, CE, AS, U.S. Coast Guard requirements, NAHAD Guidelines, and are Lloyds and DNV approved ! ATEX certificate can be released on request.



Burst pressure indicated is at ambient temperature. Maximum temperature rating can only be maintained when working within limits of working pressure.

We reserve the right to change specification without prior notice !

**BIOTEC 85** is a special type of fuel hose, designed to handle all grades of **ETHANOL** fuel blends. It is built with a specialized combination of high performance films and fabrics, resistant today's high concentrated alternative fuels as **Bioethanol**, produced from starch or sugar in crops such as corn, wheat, beet and sugarcane.

Bioethanol is a clear, colourless, flammable, oxygenated hydrocarbon, which can be used as pure vehicle fuel or blended at any level with gasoline to create a biofuel blend.

**BIOTEC 100** is an alternative fuel hose, designed to handle all grades of **BIODIESEL** including 100% neat biodiesel. **BIOTEC 100** hose comprises a specialized combination of high performance films and fabrics, fully resistant to concentrated alternative fuels. **Biodiesel** or FAME (Fatty Acid Methyl Ester), produced from different sources like e.g. rape seed, soy bean oil or tropical alm and coconut oil.

Pure it is used in replacement of Diesel oil or blended with conventional petroleum diesel to create a biodiesel blend.

Code	BIOTEC 85 ZZ	BIOTEC 85 ZX	BIOTEC 100 XZ	BIOTEC 100 XX
Applications	Heavy duty bio fuel transfer			
Colour	Green		Black	
Temperature	-40 +100°C			
Inner wire	PP coated steel	PP coated steel	st. steel	st. steel
Outer wire	galv. steel	st. steel	galv. steel	st. steel

Size		Max. W.P.		Safety Factor	Bend Radius EN ISO 1746		Weight kg / m	Maximum Length	
mm	Inch	bar	P.S.I.		mm	Inch		m	Feet
20	3/4"	15	200	5:1	75	3	0,73	40	132
25	1"	15	200	5:1	100	4	0,90	40	132
32	1 ¼"	15	200	5:1	125	5	1,27	40	132
40	1 ½"	15	200	5:1	140	5 ½	1,49	40	132
50	2"	15	200	5:1	180	7	2,18	40	132
65	2 ½"	15	200	5:1	220	8 ½	3,09	40	132
75/80	3"	15	200	5:1	180	11	3,66	40	132
100	4"	15	200	5:1	400	16	5,28	40	132
150	6"	15	200	5:1	575	23	11,90	40	132
200	8"	15	200	5:1	800	32	15,65	40	132
250	10"	15	200	5:1	1000	40	22,53	25	82
300	12"	15	200	5:1	1200	48	31,78	25	82



Burst pressure indicated is at ambient temperature. Maximum temperature rating can only be maintained when working within limits of working pressure. We reserve the right to change specification without prior notice !