

EXTREME ENVIRONMENTAL PROTECTION

Protection of components from high temperatures, mechanical abuse and aggressive fluids is vital in many traditional and emerging industries. In oil and gas, nuclear, industrial compressor and medium voltage distribution sectors, technologies and conditions are changing that are putting more stress on components. New methods for protection are needed to maintain long service life and to minimize maintenance costs. In these sectors new methods of protection can create a competitive advantage through longer service life and minimized maintenance costs.

OilStop is a PVDF heat shrink product that provides superior chemical, electrical, high temperature and mechanical resistance. The properties that really make it stand out are its medium wall design, large expanded diameters, high shrink ratio, low shrink temperature and exceptional split resistance. These features expand its application range allowing it to be successfully applied over connectors and irregular shapes. With these unique properties it is emerging as a high value option in many designs and maintenance applications.

PRODUCT NAME

OilStop

PRODUCT DESCRIPTION

OilStop is a tough cross-linked medium wall PVDF heat shrink tubing with exceptional chemical, high temperature and split resistance.

APPLICATIONS

- Originally designed as an oil-stop tubing for medium voltage PILC cable joints
- Provides excellent chemical resistance to solvents, oil, gas, diesel, industrial fuels and chemicals
- 3:1 shrink ratio provides strain relief and environmental protection of connectors and components in aggressive environments
- Split resistant formulation allows consistent application over irregular shapes and profiles during recovery
- Medium wall tubing provides re-jacketing or mechanical protection of cables in high temperature, rugged conditions
- Large diameters can be used for over sized applications in industrial and oil and gas applications

ADVANTAGES

- 3:1 shrink ratio
- Large diameters
- Medium wall offers superior ruggedness and abrasion resistance
- Split resistance
- Temperature rating of 150°C
- Chemical resistance
- Available in sizes 0.75 in to 2.7 in, custom sizes available upon request
- Highly flame retardant

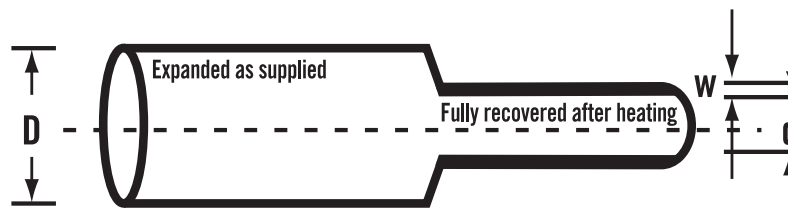


MARKET SEGMENT

Oil and Gas, Industrial, Military, Electrical

OILSTOP MEDIUM WALL PVDF HEAT SHRINK TUBING

SIZE	EXPANDED	TOTAL RECOVERED		LENGTH
	INTERNAL DIAMETER (MIN.)	INTERNAL DIAMETER (MAX.)	WALL THICKNESS (NOM.)	
	MM	MM	MM	M
OSTC 19/7	19.0	7.0	1.0	1.22
OSTC 35/12	35.0	12.0	1.0	1.22
OSTC 51/19	51.0	19.0	1.0	1.22
OSTC 67/27	67.0	27.0	1.0	1.22



SPECIFICATIONS

PROPERTY	TEST METHOD	OSTC
PHYSICAL		
Tensile Strength	ASTM D2671, 2 in/min	5,440 psi
Elongation	ASTM D2671, 2 in/min	478%
Longitudinal Change	MIL-I-23053-18	-7.5%
2% Secant Modulus	ASTM D2671	107,800 psi
Specific Gravity	ASTM D792	1.72
Elongation after heat aging (168 hr at 158°C)	ASTM D2671	361%
Elongation after heat aging (168 hr at 250°C)	MIL-I-23053-18	297%
Heat Shock (4 hr at 275°C)	ASTM D2671	Pass: No cracking or splitting
Low Temperature Flexibility (4 hr at -55°C)	ASTM D2671	Pass
Shrink Temperature	DTTM 010	145°C
Flammability	ASTM D2671 Procedure (C)	Pass
ELECTRICAL		
Dielectric Strength	MIL-I-23053-18	400 V/mil, 20 kV/mm
Volume Resistivity	ASTM D2671	3.43×10^{13} ohm-cm
CHEMICAL		
Copper Corrosion (16 hr at 160°C)	ASTM D2671	Pass
Water Absorption (24 hr at 23°C)	ASTM D570	0.30%