



PRODUCT LINES

Technical Bulletin

Effective January 2005

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PRODUCT DATA: #206.3 FLUID FILM[®] WRO-EP WIRE ROPE LUBRICANT, EXTREME PRESSURE

DESCRIPTION: Permanently soft gel. Conforms to MIL-PRF-18458C. Submarine Material Usage Category-Limited-100 Deg.F Maximum Temperature.

COLOR: Greenish black.

GENERAL USAGE: WRO-EP is recommended for the general maintenance of wire rope. It provides corrosion protection and lubrication for standing and running rigging, drag lines and bridge cable. The high tackiness of WRO-EP minimizes throw-off on higher speed running rigging and provides higher resistance to water abrasion and washout when used in tidal areas. Extreme pressure properties provide excellent lubrication for both wire rope and open gear applications.

Rusty wire rope and cable should be first treated with FLUID FILM[®] Liquid A or Liquid AR, to attain maximum penetration.

Where a low viscosity material is desired for a slushing compound, the use of FLUID FILM[®] Gel WRL is recommended. This product also has extreme pressure properties. See Technical Bulletin #206.2.

APPLICATION: WRO-EP Wire Rope Lubricant may be applied using a leather or lambs wool glove. When a considerable length of wire is to be coated, it may be advantageous to apply as follows: Form a cone of leather, about two feet long and six inches in diameter at the base. Both base and apex are left open with the wire rope passing through the apex. The apex is tightly lashed around the wire with marlin for about six inches. WRO-EP is applied to the wire with a rag, then the leather cone is dragged along the wire (or vice versa) so that the excess is scraped off into the cone, the remainder being well worked into the rope crevices. The amount of material left on the wire can be regulated by adjusting the marlin lashing. Too heavy an application not only wastes material but also can result in throw-off, particularly in running cable.

TYPICAL PROPERTIES:

<u>PROPERTY</u>	<u>VALUE</u>	<u>ASTM</u>	<u>IP</u>
NLGI Grade	1 - 2	D-217	
Specific Gravity	0.928 - 0.938		
Dropping Point	235 ⁰ F	D-566	132/65
Flash Point	490 ⁰ F	D-92	36/67

Effect on Rubber: None on neoprene, buna-n and most synthetics. Not recommended in contact with natural or butyl rubbers.

COMPARISON WITH MIL-G-18458B(SH):

<u>PROPERTY</u>	<u>(TYPICAL) WRO-EP</u>	<u>SPECIFICATION</u>
Worked Penetration (ASTM D-217)	290	200 - 350
Oil Separation	1.6%	10% Max.
Load Wear Index (ASTM D-2596)	46.7	30 Min.
Accelerated Weathering (ASTM G-23)	pass	pass
Salt Spray 20%	pass	pass
Low Temperature Flexibility (-60 ⁰ F)	pass	pass
Volatile Matter	1.7%	2% Max.
Adhesiveness	99.8%	95% Min.

Packaged in 35 pound (15.9 kilo) pails and 400 pound (181.6 kilo) drums.

Keep out of reach of children.

This document is subject to revision without notice.



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