



TECHNICAL DATA SHEET

FLUID FILM WRO-EP

Product information without obligation for projects

11/2024

1. Type of material	Solvent-free, soft coating material based on lanolin, environmentally friendly and physiologically safe.
2. Color	Black - Grey
3. Areas of application	High-quality wire rope preservation (applicable in aggressive marine and tropical climates). Corrosion protection for cables, bolts, and screw connections.
4. Properties	<ul style="list-style-type: none">• Solvent-free, resulting in significantly reduced environmental impact during application• Very high resistance and durability against saltwater and chemicals• Temperature stability from -45°C to +110°C• High mechanical strength with strong adhesion under extreme external conditions• Excellent wear protection and EP properties• Economical and easy to apply a layer thickness of up to 3000 µm can be applied in a single step• Single-component product with 98% solids content• Combined with FLUID FILM Liquid A, it provides high penetration ability down to the core of the cable, including surface protection• In case of coating damage, FLUID FILM WRO-EP has a limited self-healing effect• FLUID FILM WRO-EP complies with United States Military Specification – MIL-G-18458

HODT Korrosionsschutz GmbH

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5. Technical Specifications

Density 20 °C g/cm ³	0,91 - 0,92
Flash Point (ASTM D 92)	256 °C
Viscosity	320 *
Dropping Point °C	115 °C **

*The consistency of the product was measured according to DIN 51804 at a temperature of 25 °C as a worked penetration. According to DIN 51818, FLUID FILM WRO-EP belongs to NLGI Class 5 and 6 based on its consistency.

** The drop point indicates the temperature at which, under test conditions according to DIN 81801, the first drop of the melting product drips from the test nipple.

6. Packaging

310 ml cartridge
17,6 ltr. pail
208 ltr. drum



7. Shelf life

In original containers - unlimited
Temperature: unlimited

8. Delivery Consistency

high viscosity

9. Application Methods

Brush / Roller / Wool Glove
310 ml Cartridge



MASTO Wire Rope Lubricator



10. Surface Preparation	The surfaces must be dry, free of contaminants and loose elements such as rust and old coatings. Remove contaminants and loose elements by high pressure washing, scraping, or brushing.
11. Safety precaution	<p>FLUID FILM WRO-EP is a safe product for health; however, when applied by spraying, a fine oil mist is formed. Inhaling these respirable oil mist droplets (0.01 to 10 µm) can allow harmful substances to enter the body. Generally, a concentration of 5 mg oil mist/m³ of mineral origin is considered the limit. Additionally, the formation of a dangerous, explosive atmosphere through oil-mist-air mixtures is possible.</p> <p>Therefore, when spraying FLUID FILM WRO-EP in confined spaces (such as tanks), adequate ventilation must be provided. This ventilation must, as far as technically possible, ensure that workers are not exposed to health-hazardous concentrations of oil mist. If this is not feasible, protective masks (respirators) should be used. Other personal protective measures include oil-resistant protective clothing, gloves, and headgear. Basic hygiene practices should also be observed.</p> <p>If adequate ventilation is not possible when processing FLUID FILM WRO-EP by spraying in confined spaces (such as tanks), only approved, explosion-proof safety lamps may be used.</p>



DEPARTMENT OF THE NAVY

NAVAL SEA SYSTEMS COMMAND

WASHINGTON DC 20362

4123

OPR: 55Z312

Ser 55Z3

Eureka Chemical Co.
ATTN: D.T. Stanton
234 Lawrence Ave.
S. San Francisco, CA 94083

24 JUN 1988

Gentlemen :

We are in receipt of reports from Mare Island Naval Shipyard and the Naval Environmental Health Center, enclosures (1) and (2) , covering the results of the qualification testing and toxicological evaluation conducted on your "FLUID FILM, WRO-EP" brand grease in accordance with MIL-G-18458B (SH) and Amendment - 4.

The results of the subject reports were determined to be satisfactory and in conformance with the requirements of MIL-G-18458B (SH) and Amendment-4. Therefore, qualification approval is hereby granted to your plant located at 234 Lawrence Avenue, S. San Francisco, California in accordance with MIL-G-18458B (SH) and Amendment-4 and subject to the conditions printed on the reverse side of this page.

Your product will appear on QPL-18458 as follows

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	TEST OR QUALIFICATION REFERENCE	MANUFACTURER'S NAME AND ADDRESS
	FLUID FILM; WRO-EP	MARE ISLAND Navshipyd Rpt. 4406-88	Eureka Chemical, Company 234 Lawrence Ave. S. San Francisco, CA. 94083 Plant: Same Address

Sincerely,

Encl:

- (1) MARE ISLAND
NAVSHIP Rpt.
4406-88
- (2) NEHC Rpt. dtd
3/21/88

DAVID W. NELSON
Director, DOD Standardization
Program and Documents Division
By direction of the Commander