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Technical Data Sheets | Aerosol & Non-Aerosol/ Bulk

FLUID FILM® is a penetrant and lubricant also used for corrosion prevention. It is a non-toxic, long lasting, thixotropic liquid that has been used for over fifty years in the highly corrosive marine environment of ships and offshore drilling rigs. More recently they have been introduced and successfully utilized in the aerospace, aircraft and automobile industries as well as for home maintenance. Facilities where they are used include the following: government facilities, commercial fishing concerns, gas companies, agriculture, salt plants, municipal plants, power plants, manufacturing plants and pulp and paper mills.

FLUID FILM® is formulated from specially processed wool-wax, highly refined petroleum oils and selected agents to provide corrosion control, penetration, metal wetting and water displacement. The long lasting product contains no solvents, will not dry out and will penetrate to the base of all metals, providing corrosion protection from both natural and industrial atmospheres. Heavily corroded and/or frozen parts such as nuts, bolts, shafts, etc. that would normally be damaged during maintenance, can be salvaged by applying FLUID FILM®.



TYPICAL PROPERTIES

Unless designated otherwise, the following data refers to FLUID FILM® NAS or FLUID FILM® AS after the propellant has evaporated away following spray application.

Appearance	Clear, straw colored liquid.
Viscosity	Brookfield HBF, 70 ° F #2 Spindle at 2 RPM 10.5 - 13.5 reading (16,800 - 21,600 cps)
Flash Point, Bulk Liquid: ASTM-92 Cleveland Open Cup	405°F minimum.
Non-Volatile	89% minimum (3 hours @ 220°F).
VOC. CARB 310	AS: Less than 25%, NAS: Less than 1%

Specific Conductivity Less than 10 -9 ohm/cm @ 1 mHz.

Specific Gravity 0.875 - 0.885 (less propellant).

Effect on Rubber

None on neoprene and buna-n. May cause swelling on non oil-resistant

ASTM D-471 @ ± 158°F 70 hours rubber goods.

Effect on Paint None on most painted surfaces.

Effect on Aluminum No pitting.

Extreme Pressure Fail load - 15 pounds.

ASTM D-2782 Timken Method

Wear Prevention - Characteristics 40 Kg., 1200 RPM for 1 hour @ 167°F. Results: Scar diameter of 0.49mm. **ASTM D-2266 Four Ball Method**

Repaintability Contain no silicones. It is recommended that surfaces treated with FLUID

FILM® AS or NAS be hot water or steam detergent washed (120°F),

whichever is most effective.

Corrosion Protection Passes 50 days.

ASTM D-1735 Humidity Cabinet

Corrision Requirment

ASTM D-1748 Passes 30 days.

Humidity Cabinet

MIL-C-16173 Grade 2 -Soft Films. Meets & exceeds salt spray requirements.

Water Replacement Displaces water from all metal surfaces (MIL-C-23411, Paragraph 3.6).

Toxicity Non-toxic, LD-50 greater than 3 grams per kilogram. Non-irritating skin

response. Very slight irritation to the eyes. (Toxicity tests performed according to standard methods by an independent laboratory).

Warning AS: Extremely flammable. Contents under pressure. Do not puncture,

incinerate or store above 120°F. Keep from open flame.

NAS: Combustible. Do not incinerate

Spray Nozzle CleaningTurn can upside down, point in a safe direction and spray until only

propellant escapes. If spray button becomes clogged during use, pull it from the can and clean it with a fine wire or needle. Replace the button with a gentle twisting motion, keeping it pointed in a safe direction. Do not

stick pins or other objects into nozzle tube.

All components of FLUID FILM® Aerosol and non-aerosol are listed on the TSCA Inventory.