



Simply the best since 1943

Product Data: #207
Effective January 2020

FLUID FILM® AEROSOL & NON-AEROSOL / BULK

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®.

NOTE: ENVIROMENTALLY FRIENDLY – NAS is solvent Free and essentially non-toxic

NATIONAL STOCK NUMBER

11 3/4 OZ, 12/CTN Aerosol Spray
8030-01-387-1131

12 oz, 12/CTN Non-Aerosol
8030-01-381-6357

1 gal, 4/CTN Non-Aerosol
8030-01-386-3871

5 gal Pail Non-Aerosol
8030-01-387-1070

FLUID FILM® PENETRANT, LUBRICANT and CORROSION PREVENTATIVE (NAS)



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 coloured liquid.
Viscosity	Brookfield HBF, 21 ° C #2 Spindle at 2 RPM 10.5 - 13.5 reading (16,800 - 21,600 cps)
Flash Point, Bulk Liquid: <i>ASTM-92 Cleveland Open Cup</i>	207°C minimum.
Non-Volatile	89% minimum (3 hours @ 104°C).
VOC. <i>CARB 310</i>	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 <i>ASTM D-471 @ ± 158°F 70 hours</i>	None on neoprene and buna-n. May cause swelling on non-oil-resistant rubber goods.
Effect on Paint	None on most painted surfaces.
Effect on Aluminium	No pitting.
Extreme Pressure <i>ASTM D-2782 Timken Method</i>	Fail load - 15 pounds.
Wear Prevention - Characteristics <i>ASTM D-2266 Four Ball Method</i>	40 Kg., 1200 RPM for 1 hour @ 75°C. Results: Scar diameter of 0.49mm.
Repaint ability	Contain no silicones. It is recommended that surfaces treated with FLUID FILM® AS or NAS be hot water or steam detergent washed (49°C), whichever is most effective.
Corrosion Protection <i>ASTM D-1735 Humidity Cabinet</i>	Passes 50 days.

ASTM D-1748 <i>Humidity Cabinet</i>	Passes 30 days.
MIL-C-16173 <i>Corrosion Requirement</i>	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 49°C. Keep from open flame. NAS: Combustible. Do not incinerate
Spray Nozzle Cleaning	Turn 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.
Coverage	Fluid Film NAS can be applied by spraying or brushing to a thickness of 3 to 4 mils. Coverage rate is 4.4 m² / litre . However, from experience when applied by hand in difficult locations, typically the application is thicker, and coverage rate is often 2.2 m² / litre . This is simply a function of being able to access locations in hulls and voids etcetera

KEEP OUT OF REACH OF CHILDREN.

This document is subject to revision without notice.