Technical Information

Penetroil

Multipurpose, Multifunctional 5-in-1 Lubricant

Product Description

ASV® Penetroil is a fast acting industrial grade lubricant, rust penetrant and corrosion inhibitor. It forms a clear thin non-drying lubricating film that penetrates deep into the minutest crevices to displace trapped moisture and leaves behind a protective film to seal out further moisture and corrosion. Its unique low surface tension formula rapidly attacks rust to free seized or frozen components. It is non-conductive, non-staining and offers complete protection to metal surfaces indoors as a medium term corrosion inhibitor for protection against corrosion and moisture penetration for up to 12 months under normal storage conditions. ASV® Penetroil does not contain any silicones, ozone depleting chemicals, CFC's or harmful chlorinated solvents and is safe for use on around all metals, plastics, rubbers and other industrial finishes.

Benefits

- Multifunctional formula lubricates all sliding and moving parts with a long lasting thin oily lubricating film
- Rapidly penetrates minute cracks and pores to displace trapped moisture
- Penetrates deeply through rust to loosen scale and corroded or frozen parts
- Leaves a thin, long lasting film, film to prevent formation of rust or corrosion
- Cleans & removes oils, greases and other light contaminants
- Provides greaseless, non staining, silicone free lubrication and protection
- Contains safe non flammable CO_2 propellant
- 360° Valve allows product to be sprayed in any position-even inverted

Applications

A product as versatile as this has hundreds of multipurpose uses in all types of industrial, marine, aviation, electrical / electronic, electromechanical, commercial and domestic applications.

- Lubrication: Thin, non-drying protective oily film effectively lubricates moving parts as tuners, micro switches, power tools, automation equipment, locks, vending machines.
- Rust Penetration: For rapidly loosening tight, rusted or frozen components with high penetrating action.
- Moisture Displacement: Rapidly dries wet ignitions & removes trapped moisture from electrical / electronic systems.
- Corrosion Protection: For dies, jigs, tools, relays, connectors, switches, instruments, finished welds, casings, shafts, motors, freshly machined surfaces.
- Cleaner: For dissolving and removing grease, oil and other light contaminants.
- Prevention: Of entry of further moisture.

Directions for Use (Bulk)

Apply by means of brush or by dipping component into the fluid. Allow solvents to penetrate and free rusted parts. Period for penetration may vary depending upon the length of time the product has been rusted for and in some cases may even take up to hours. Use an absorbent rag or a brush to remove dirt, rust, scales & dust. For moisture displacement, apply onto surfaces till only clear product (amber-pale straw) comes out and the emulsified residue is totally cleared. Never use on energized circuits or hot surfaces. Clean and dry surfaces completely before applying power. For metal protection, dip components or apply by brush and do not wipe off protective film from the surface.

Directions for Use (Aerosol)

For rust penetration, spray liberally onto the surface. Allow solvents to penetrate and free rusted parts. Period for penetration may vary depending upon the length of time the product has been rusted for and in some cases may even take up to hours. Use an absorbent rag or a brush to remove dirt, rust, scales & dust. For lubrication, spray lightly and evenly over surface area to be lubricated. For moisture displacement, spray until clear product comes out and emulsified residue is totally clear. For metal protection, spray liberally and do not wipe off protective film from the surface.

Caution: Contains flammable solvents. Do not spray near naked flame, hot surfaces or energized equipment. Use with adequate ventilation.

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Property*		Aerosol	Bulk
Appearance	Visual	Liquid	Liquid
Color	Visual	Amber brown	Amber brown
Odor		Mild sweetish	Mild sweetish
Specific Gravity @ 27°C	In house	0.80-0.86 gm/cc	0.80-0.86 gm/cc
Viscosity @ 40°C	ASTM D 445	3-4 cst	3-4 cst
Flash Point	ASTM D 92	+61.8°C	+ 61.8°C
Boiling Point (initial)		+180°C	+180°C
Type Of Film	Visual	Non drying oily	Non drying oily
Film Thickness	In house	0.02-0.05 mm	0.02-0.05 mm
Solubility		Nil in water	Nil in water
Corrosion Protection		Indoors	Indoors
Suitable For		All metals	All metals
Testing as per MIL-C-23411(Y) & MIL-C-81309 D Type III	Min. Parameters	Result	
Water Displacement Test		Pass	
Dielectric Strength Of Film	25,000 volts min.	32500 volts	
Effect on acrylic plastic & polycarbonate	No cracking, crazing or staining	Nil (does not affect)	
Effect on Enamel or Paint	No cracking, crazing or staining	Nil (does not affect)	
Corrosivity, maximum weight Magnesium, Cadmium, Zinc Aluminum, Copper, Brass	 (max. 0.5 mg/cm^2) (max. 0.2 mg/cm^2)	Nil (no change, does not affect substrates)	
Film Thickness, maximum	0.2 mil	pass	
Neutral salt fog protection, minimum hours	336	pass	
Removability Test		Completely removable with dry cleaning solvent MIL-PRF-680 Type II or MIL-PRF-85570 Type II	
Meets or Exceeds Specifications		MIL-C-23411 (AY) (now cancelled vide Notice 1 dated 22 May 1980). Replaced by MIL-C-81309 D Type III For Corrosion Preventive Compounds, Water Displacing, Ultra Thin Film, MIL-C-16713D, Type 3	
Propellant		CO_2	NA

* of active ingredients

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MOLYSULF® & ASV® Specialty Lubricants & MRO Technical Chemicals.
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Distributed by:

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Available Packaging

- 500 ml aerosol can
- 5 liter, 30 liter container

General

Use in well ventilated areas. Avoid continuous breathing of vapor and spray mist. In closed areas or areas with poor ventilation, use respiratory protection. For complete details on safety, short and long term exposure, refer to this product's safety data sheet (SDS).

Disposal

All used and unused product should be disposed of in accordance with state regulations.

Shelf Life

Bulk - 24 months from date of manufacture in sealed condition
Aerosol - 24 months from date of manufacture

Handling

Read instructions on the container label of the product before use. The product safety data sheet (SDS) contains the relevant information regarding personal protective equipment, safe use, physical and health hazards. Safety data sheet is available from ASV or your local ASV distributor.

Limited Warranty

The information and data contained in this sheet is accurate to the best of our knowledge or is obtained from sources, tests or experiences believed by us to be reliable and accurate. User is responsible for determining whether recommended ASV® product is fit for a particular purpose. All products should be tested for suitability on a particular application prior to actual use. We make no representations of any kind. Data offered without warranty.