

ELM Penetrating Fluid (Pen)

Part Number: SL-120

Biodegradable Biobased Penetrant



Environmental Lubricants Manufacturing, Inc.

DESCRIPTION ELM Penetrating Fluid is a high-performance penetrant designed to penetrate and loosen even the most corroded and rusty seized metal parts. For general purpose use. Formulated with the best optimized USA-grown natural seed oils and select additives, it is safe and performs better than conventional penetrants.

BIOBASED – BIODEGRADABLE-NON-BIOACCUMULATIVE Based on evaluation of the base oils and the finished products, the ELM biobased products are designed to be biodegradable, aquatically non-toxic, not-bioaccumulative, and with no impact on plants as determined by known test methods. Nevertheless, the use of all of ELM products are subject to the local ordinances and ultimate responsibility for impact remains with the users.

APPLICATIONS

- Multipurpose penetrating fluid for loosening frozen metallic parts
- Loosens rusty bolts
- Great for automotive restoration
- Quiets squeaky hinges and moving parts
- Deters water
- Oily residue protects from rust and corrosion
- For the toughest of jobs soak area for 2-3 days, occasionally tapping on the part. After a few days it will be ready for easy removal

BENEFITS

- Creeps in all directions attacking rust in those difficult to reach areas
- Breaks apart rust and corrosion freeing frozen parts
- Superior lubricity keeps parts moving
- Flash point is more than 2X higher than most conventional penetrants
- Made from plant oils, better for your health
- Safe for all metals
- Will help your business comply with ISO-14000
- Made from renewable USA-grown crop-based vegetable oils – Reduces foreign oil dependence.

TYPICAL PROPERTIES	Value	Test Method
Appearance	Amber	Visual
Viscosity @40°C, cSt	4.5 - 5.5	ASTM D 445
Viscosity @100°C, cSt	1.5 – 2.00	ASTM D 445
Flash Point, °C (°F)	170(338) to 180(356)	ASTM D 93
Pour Point, °C (°F)	-6 (21.2) to -10(14)	ASTM D 97
Surface Tension, Dynes/cm ²	32.43	ASTM D 1331
Base Oil Biodegradability – OECD 301	Pass	
Base Oil Aquatic Toxicity – OECD 202	Non-Toxic	
Base Oil Plant Toxicity - OECD 208	Non-Toxic	

PACKAGING

5 Gal. Pails
 55 Gal. Drums
 275 Gal. Totes

PRECAUTIONS ELM PENETRATING FLUID IS MANUFACTURED FROM HIGH QUALITY NATURAL SEED OILS AND BLENDED WITH SELECT ADDITIVES. AS WITH ALL LUBRICANTS, GOOD PERSONAL HYGIENE AND CAREFUL HANDLING SHOULD ALWAYS BE PRACTICED. AVOID PROLONGED CONTACT TO SKIN, SPLASHING INTO THE EYES, INGESTION OR INHALING OF VAPOR OR MIST. PLEASE REFER TO THE MATERIAL SAFETY DATA SHEET FOR FURTHER INFORMATION.

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