

# Polihim Research and Production Enterprise (OOO)

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## POLITREN M-3 V

TOOL LUBRICANT

### DESCRIPTION

**Politren M-3 V** is an oil lubricant based on oils, thickeners and additives. It is used to lubricate the tools during the aluminum tape rolling process.

### PHYSICAL AND CHEMICAL PROPERTIES

Parameter	POLITREN M-3 V
Appearance	Thick liquid (paste) brown
Mass fraction of ash, %, not more than	0.5
Relative viscosity @80°C, sSt, not less than	10
Density, g/cm <sup>3</sup> , @20°C, not less than	0.9
Flash point in an open cup, °C, not less than	170

### PERFORMANCE CHARACTERISTICS

- when applied to a separating surface it forms a lubricant layer with high antiwear properties;
- due to its high thermal stability the product ensures effective production of aluminum tape;
- improves the tape quality;
- does not contain substances that cause metal corrosion;
- does not corrode tools or machine parts.

### USE

Politren M-3 V:

- is supplied ready to use;
- used as a concentrate, no dilution is required;
- may be diluted with oil;
- provides a cost effective way to lubricate the tools during aluminum tape rolling.

## **SAFETY REQUIREMENTS, TOXICOLOGICAL PROPERTIES AND ENVIRONMENTAL PROTECTION**

Politren M-3 V tool lubricant is a flammable thick liquid (paste). In accordance with GOST 12.1.007-76 the product is classified in the lowest hazard class IV (low hazard chemical compounds).

When using the product in hot metal processing, the main components polluting the air in the working area are: mineral oil aerosol (MPC is  $5 \text{ mg/m}^3$ ) and carbonic oxide (CO) (MPC is  $20 \text{ mg/m}^3$ ).

The premises where the product is used shall be equipped with continuously operating supply and exhaust mechanical ventilation. Within the production facilities the air shall be monitored subject to the shop-floor air monitoring schedule agreed with the local public health authorities.

The personnel involved in handling the lubricant product shall wear protective clothing and use personal protective equipment in accordance with standard industry norms.

Use clean cloth to remove the lubricant from hands or face; wash the remaining product away with warm soapy water.

In case of ingress of the product onto working parts of the machinery, the floor of the machinery area shall be cleaned with rags, the remaining product shall be washed away with soapy water.

Politren M-3 V tool lubricant is a water-insoluble oil liquid. Its maximum permissible concentration in water bodies ( $\text{MPC}_w$ ) determined for oil is  $0.4 \text{ mg/l}$ .