

# Polihim Research and Production Enterprise (OOO)

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## POLITREN MR A2

TOOL LUBRICANT

### DESCRIPTION

**Politren MR A2** is an oil lubricant concentrate based on mineral oil, graphite and a complex of antiwear, extreme-pressure, dispersing, antioxidant, depressant and other additives. It is a multi-purpose low-temperature lubricant for cold forming, deep upsetting of steels, including hard-to-deform steels.

### PHYSICAL AND CHEMICAL PROPERTIES

Parameter	POLITREN MR A2
Appearance	brown homogeneous liquid
Density @20°C, g/cm <sup>3</sup> , not more than	1.0
Kinematic viscosity @20°C, Pa-s, not less than	0.10
Flash point in an open cup, °C, not less than	175
Freezing temperature, °C, not more than	-30
Water content, mass %	None
Protection of carbon steel and alloys against corrosion.	+
Storage life, not less than	1 year

### USE

#### POLITREN MR A2

- supplied and used as a concentrate, before use it can be diluted with oil, mainly industrial И-20А (SN-100) oil, if necessary.
- easy soluble with any mineral oil;
- the working (required) concentration is a cost-effective solution for high-pressure metal processing;
- the optimum dilution rate shall be determined empirically directly at the working site.

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

Politren MR A2 lubricant is a flammable liquid with a flash point of not less than 175<sup>0</sup>C in an open cup.

In accordance with GOST 12.1.007-76 the product is classified in the lowest hazard class IV (low hazard chemical compounds).

Upon single or multiple exposure the product does not irritate skin, or mucous membranes of the eyes. Volatile components neither cause irritation of mucous membranes of the eyes or upper respiratory tract nor have a sensitizing effect.

When using this product the main component polluting the air in the working area is mineral oil aerosol (MPC is 5 mg/m<sup>3</sup>).

The premises where Politren MR A2 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.

When manufacturing and/or using Politren MR A2 oil-based solutions, the requirements of "Sanitary rules for working with cooling lubricants and tool lubrication", No. 3935-85 dated 09.29.1985, shall be complied with.

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

Politren MR A2 is a water-insoluble oily liquid. Its maximum permissible concentration in water bodies (MPC<sub>w</sub>) determined for oil is 0.4 mg/l.