

PMET® PE1650 is a specially structured oil alcohol polyether phosphate ester, which is a lubricant, extreme pressure anti-wear additive, corrosion inhibitor, wetting agent, emulsifier, cleaning agent, dispersant for lubrication and rolling oil, hydraulic and water-based cutting fluid, glass cutting and polishing lubricant, biodegradable and non-ecotoxic surfactant. As a long carbon chain phosphate, it can be applied to reduce friction and wear under high load induced boundary lubrication conditions, extend equipment life, reduce tool losses and reduce energy consumption. In the cutting and grinding oil (fluid), it has a "polishing" function to produce processed products with excellent surface finish. Compared with other sulfur compounds and chlorine compounds, phosphate ester can reduce corrosion, especially has excellent aluminum corrosion inhibition effect.

CHEMICAL COMPOSITION

Oleyl polyether phosphate ester

CAS No.: 68909-67-1

TYPICAL PROPERTIES

Test Item	Typical Data	Method
Appearance	Pale yellow to reddish brown viscous liquid	Visual inspection
Density at 20℃, g/cm ³	1.01	GB/T 1884
Viscosity at 40℃, mm ² /s	450.0	GB/T 265
Acid number, mgKOH/g	82.0-92.0	GB/T 7304
Flash point closed cup, °C	170.0	ASTM D93
pH value, 1% aqueous solution	2.6	pH meter
Water content, %	0.13	GB/T 11133

Note: The above analytical data are not specifications.

PERFORMANCE CHARACTERISTICS

- Excellent emulsification performance
- Good rust prevention performance after amine neutralization
- Excellent extreme pressure and lubrication properties
- Low-foaming, good aluminum corrosion inhibition

APPLICATION

- Can be used for pure oil and a variety of water-soluble metal processing fluid formula, extreme pressure, lubrication, emulsification, rust prevention, aluminum corrosion inhibition and other multi-functional additives
- Mainly used in emulsion and semi-synthetic formula, it has outstanding effect on stainless steel and aluminum alloy processing, and has good tool protection effect

RELATED PRODUCTS

- LUBRHOPHOS LB400, HORDAPHOS 145, HORDAPHOS 1322

PACKAGING AND STORAGE

Packaging	50kg/200kg plastic drum (net weight)
Storage conditions	Store in a cool, dry, well-ventilated warehouse

HEADLING INFORMATION

Avoid contact with skin, eyes and clothing. Operate in accordance with good industrial health and safety practices. Please refer to material safety data sheet (MSDS) for additional handling information on **PMET® PE1650**.

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