

PMET® PE1300 is a multifunctional phosphate ester additive widely used in industrial lubricants as a lubricity enhancer and extreme pressure anti-wear agent. In metalworking fluids, it serves as a specialized corrosion inhibitor for aluminum alloys, featuring high active content and low foaming characteristics, making it suitable for emulsifiable oils, semi-synthetic fluids, rolling oils, and rolling emulsions. The additive also demonstrates excellent corrosion inhibition for other metals including iron, copper, and magnesium, while maintaining superior extreme pressure and anti-wear performance.

CHEMICAL COMPOSITION

Isomeric alcohol phosphate ester

CAS No.: 52933-07-0

TYPICAL PROPERTIES

Test Item	Typical Data	Method
Appearance	Light-yellow transparent liquid	Visual inspection
Density at 20°C, g/cm ³	0.96	GB/T 1884
Viscosity at 40°C, mm ² /s	250.0	GB/T 265
Acid number, mgKOH/g	230.0	GB/T 264
Water, %	0.1	GB/T 11133
Phosphorus content, %	8.4	SH/T 0296

Note: The above analytical data are not specifications.

PERFORMANCE CHARACTERISTICS

- Good extreme pressure and anti-wear performance
- High activity content, low foam
- Aluminum alloy corrosion inhibitor, also has good corrosion inhibition effect on iron, copper, magnesium, etc.

APPLICATION

- Industrial lubricating oil
- Metalworking fluids (emulsified oil, semi-synthetic oil, rolling oil and rolling emulsion)

USAGE METHOD

- Added to the formulation directly and compatibility needs to be tested before adding
- Recommended dosage: 0.5-3.0wt%

RELATED PRODUCTS

- Hostacor ITD

PACKAGING AND STORAGE

Packaging	50kg plastic drum or 200kg steel 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® PE1300**.

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