UNPCHEMICALS

EXTREME PRESSURE ANTI-WEAR AGENTS

PSAIL® SERIES

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PSAIL® T309 also known as triphenyl thiophosphate, is an ashless extreme pressure and anti-wear agent that can be widely used as an anti-wear additive in various oil products such as anti-wear hydraulic oil, oil film bearing oil, hydraulic transmission oil, and turbine oil. It exhibits excellent anti-wear properties, oxidation resistance, thermal stability, and color stability.

CHEMICAL COMPOSITION

Triphenyl thiophosphate (T309) CAS No.: 597-82-0

TYPICAL PROPERTIES

Test Item	Typical Data	Method
Appearance	White or yellowish crystal	Visual inspection
Purity, %	99.8	LC method
Meting point, ℃	52.0	GB/T 617
Flash point open cup, ℃	＞200.0	GB/T 3536
Sulfur content, %	9.3	SH/T 0303
Phosphorus content, %	8.9	SH/T 0296

Note: The above analytical data are not specifications.

PERFORMANCE CHARACTERISTICS

- Good solubility and easy mixing
- Good wear resistance, oxygen resistance, thermal stability and color stability
- Combined with ***PSAIL® 3490***, the effect is better

APPLICATION

- Industrial lubricating oils
- Greases

USAGE METHOD

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

RELATIVE PRODUCTS

- IRGALUBE TPPT, T309

PACKAGING AND STORAGE

Packaging	25kg/bag (Net weight)
Storage conditions	Store in a cool, dry, well-ventilated warehouse

HANDLING 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 *PSAIL® T309*.

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