

PSAIL®T306 is a high-performance, ashless anti-wear and moderate extreme pressure lubricant additive, suitable for applications in fire-resistant hydraulic fluids, gear oils, and aviation lubricants. This product features low volatility, high flash point, and high auto-ignition temperature, along with excellent lubricating properties. It enhances anti-wear performance while reducing corrosiveness to equipment. It also exhibits outstanding stability and compatibility, making it widely applicable in industries such as automotive, industrial machinery, aviation, marine, and power generation. It also serves as an essential plasticizer for vinyl resins and nitrocellulose, demonstrating superior compatibility. It can also be used as a flame retardant in synthetic rubber, PVC, polyesters, polyolefins, and flexible polyurethane foams.

CHEMICAL COMPOSITION

Tricresol phosphate (T306) CAS No.: 1330-78-5

TYPICAL PROPERTIES

Test Item	Typical Data	Method
Appearance	Colorless or light-yellow transparent liquid	Visual inspection
Density at 20°C, g/cm ³	≤1.18	GB/T 1884-2000
Flash point open cup, °C	≥230	GB/T 3536-2008
Acid number, mgKOH/g	≤0.1	GB/T 264-1983
Phosphorus content, %	8.4	NB/SH/T 0824-2010
Free phenol, %	≤0.05	HPLC

Note: The above analytical data are not specifications.

PERFORMANCE CHARACTERISTICS

- High-performance ashless anti-wear agent
- Moderate-load extreme pressure additive
- Low volatility, high flash point, high auto-ignition temperature, and excellent lubricity
- Enhances anti-wear properties while reducing equipment corrosion
- Exceptional stability & compatibility for diverse applications

APPLICATION

- Metalworking fluids
- Gear oils, hydraulic oils
- Lubricating 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

- RC 3661/3662, TCP, ROSCAN 615

PACKAGING AND STORAGE

Packaging	50kg plastic drum or 230kg steel drum (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®T306**.

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