

PSAIL® 3740 is an amine-neutralized fatty alcohol phosphate ester structure that serves as an efficient ashless anti-wear and extreme pressure additive, playing a crucial role in the field of metalworking fluids. This additive is commonly used in conjunction with sulfur-containing additives, effectively enhancing the surface finish of workpieces and significantly extending the tool life under various working conditions.

CHEMICAL COMPOSITION

Amine-neutralized butyl phosphate ester (T308)

CAS No.: 96690-34-5

TYPICAL PROPERTIES

Test Item	Typical Data	Method
Appearance	Yellow viscous liquid	Visual inspection
Density at 20℃, g/cm ³	0.97	GB/T 1884-2000
Flash point open cup, °C	150.0	GB/T 3536-2008
Phosphorus content, %	9.5	NB/SH/T 0824-2010
Nitrogen content, %	3.9	NB/SH/T 0656-2017

Note: The above analytical data are not specifications.

PERFORMANCE CHARACTERISTICS

- Ashless, excellent extreme pressure and anti-wear performance
- Combined with sulfur additives it can improve the surface finish of the workpiece and extend the service life of the tool

APPLICATION

- Metalworking fluids for medium to harsh machining
- Honing oil
- Grinding oils
- Broaching oil
- Deep-hole drilling oils

USAGE METHOD

- Added to the formulation directly and compatibility needs to be tested before adding
- Recommended dosage: 0.2-1.5%

RELATIVE PRODUCTS

- RC 3740, VANLUBE 672, ELCO 670, T308

PACKAGING AND STORAGE

Packaging	50kg plastic drum or 200kg 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®3740**.

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