

PSAIL® 3880 is an ashless anti-wear additive with excellent antioxidant properties. It can be used as a substitute for zinc dialkyldithiophosphate in the formulation of metalworking fluids and industrial oils that do not require metals such as zinc. In the field of metalworking, the combination of this product and sulfur carrier significantly enhances the surface finish of the workpiece and extends tool life.

CHEMICAL COMPOSITION

Amine dialkyldithiophosphate

CAS No.: 71888-91-0

TYPICAL PROPERTIES

Test Item	Typical Data	Method
Appearance	Yellow clarified liquid	Visual inspection
Density at 20℃, g/cm ³	0.94	GB/T 1884-2000
Flash point open cup, °C	> 130.0	GB/T 3536-2008
Phosphorus content, %	5.0	NB/SH/T 0824-2010
Sulfur content, %	10.5	NB/SH/T 0824-2010
Nitrogen content, %	2.0	NB/SH/T 0656-2017

Note: The above analytical data are not specifications.

PERFORMANCE CHARACTERISTICS

- Ashless anti-wear additive with excellent oxidation resistance
- Can be used as a substitute for ZDDP in the formulation of zinc-free metalworking fluids and industrial oils
- Often compounded with sulfur additives for use in metalworking applications

APPLICATION

- Metalworking fluids, broaching oil
- Deep-hole drilling oil, machining oil
- Hydraulic oil, industrial gear oil
- Greases

USAGE METHOD

- Added to the formulation directly and compatibility needs to be tested before adding
- Recommended dosage: 0.4-5.0 wt%

RELATIVE PRODUCTS

- RC 3880

PACKAGING AND STORAGE

Packaging	50kg plastic drum or 180kg 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®3880**.

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