

Supplier - SMART OIL

**SmartPhos P7850**

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*Cetyl-Oleyl Alkyl Phosphate Ester*Typical Properties

Appearance	Light Yellow To Amber Liquid
Specific Gravity@25°C	0.900 - 1.200
Viscosity@40°C, cSt	3000-4000
Phosphorus Content, %wt	> 8
Acid Value, mgKOH/g	< 240
P <sub>B</sub> /P <sub>D</sub> , kg+	94 / 315
Std Packaging (NW / GW, Kg)	200.0 / 217.0

Product Description

**SMARTPHOS P7850** is a superior light color, low odor phosphate ester; which can be used for formulated into both water-based or oil-based cutting fluids.

**SMARTPHOS P7850** is a multifunctional additive that possesses anti-wear, anti-corrosion, wetting, emulsifying, detergency and dispersant characteristics. It is suitable for use in rolling oils, water-based cutting fluids, glass cutting and polishing lubricants.

**SMARTPHOS P7850** can be blended with sulfur containing compound to achieve synergistic effect and cover different temperature ranges for lubricating, anti-wear and extreme pressure performance during processing.

**SMARTPHOS P7850** performs well in severe operations on difficult-to-machine metals. It can effectively reduce smog and improve surface finishing of the workpieces.

**SMARTPHOS P7850** can be used in oil-based formulations such as hydraulic, cutting and grinding oils to boost lubricity and anti-wear performance. In addition, it can function as anti-wear agent in water-based formulations to machine magnesium and aluminium materials.

**SMARTPHOS P7850** is a biodegradable product that has limited harmful effect to environment.

Applications

Oil-Based Formulations  
Water-Based Formulations

Suggested Treat Rates, %wt

2 - 5  
1 - 2

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