

Supplier - SMART OIL  
**SmartPhos P6800**  
*Phosphate Ester*  
*Phosphate Containing Additives*

**Typical Properties**

Appearance	Clear Yellow Liquid
Specific Gravity@25°C	0.900 - 1.100
Phosphorus Content, %wt	> 5
Acid Value, mgKOH/g	< 260
Flash Point C.O.C., °C	> 170
P <sub>B</sub> /P <sub>D</sub> , kg+	114 / 250

\*4 Ball Wear Test; 5% additive in SN150, Server Motor Speeds reach 1500rpm (P<sub>B</sub>) and 1760rpm (P<sub>D</sub>) in 0.03sec.

**Product Description**

**SMARTPHOS P6800** is an oil-based phosphate ester with light color and low odor. It provides excellent lubricity and anti-wear properties when blended with other sulfurized or chlorinated EP additives for use in neat oil formulations.

**SMARTPHOS P6800** exhibits excellent performance in severe operations on difficult-to-machine metals. It will reduce smog and improve the surface finishing on the workpieces.

**SMARTPHOS P6800** will improve the performance of drawing & forming oils due to its excellent lubricity and AW properties.

**SMARTPHOS P6800** can be added directly into base oil to blend light-duty cutting oil with light or low odor.

<b>Applications</b>	<b>Suggested Treat Rates, %wt</b>
Drawing & Forming Oils	2 - 5
Light Duty Cutting Oils	1 - 5
General Cutting	0.5 - 2

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