

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 _B /P _D , kg+	114 / 250

*4 Ball Wear Test; 5% additive in SN150, Server Motor Speeds reach 1500rpm (P_B) and 1760rpm (P_D) 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.

Applications

Drawing & Forming Oils
 Light Duty Cutting Oils
 General Cutting

Suggested Treat Rates, %wt

2 - 5
 1 - 5
 0.5 - 2

Print date: 21-01-26

Disclaimer: Information provided by this website and product page including specifications, applications and formulations are based on tests and data supplied by Smart Oil companies, manufacturers or any of our collaborated companies or suppliers, which are believed to be correct and reliable at the time of writing and data update. However, Smart Oil companies, manufacturers or any of our collaborated companies or suppliers make no warranty or responsibility, express or implied, of any kind regarding products, performance, formulations or applications, as operation conditions and application environments are beyond our control, or products will be modified by action of manufacturers or due to change in market environments. Users are herewith expressly requested to conduct test to determine the suitability of our products or product information before use. Furthermore, we regret that we cannot be responsible for informing customers any changes in specifications, formulations, or other technical contents on this website and product page. Also, We hereby state that all product trademarks other than Smart Oil, including trademarks from our , suppliers are the trademarks belong to the respective companies, or from their sources.