

Supplier - SMART OIL
SmartPhos P7800
Phosphate Containing Additives
Phosphate Ester

Typical Properties

Appearance	Light Yellow To Amber Liquid
Specific Gravity@25°C	0.900 - 1.200
Viscosity@40°C, cSt	550 - 950
Phosphorus Content, %wt	> 4
Acid Value, mgKOH/g	< 240
Flash Point C.O.C., °C	> 180
P _B /P _D , kg+	128 / 315
Std Packaging (NW / GW, Kg)	217.0 / 200.0

Product Description

SMARPHOS P7800 is a superior light color and low odor phosphate ester, which can be formulated into both water-based or oil-based cutting fluids.

SMARPHOS P7800 is a multifunctional additive that possesses anti-wear, anti-corrosion, wetting, emulsifying, detergency and dispersant characteristics. It is suitable for use in formulations of rolling oils, water-based cutting fluids, glass cutting and polishing lubricants.

SMARPHOS P7800 can be blended with sulfur or chlorine compound to achieve the synergistic effect, to cover different stages of lubricating, anti-wear and extreme pressure during processing.

SMARPHOS P7800 performs well in severe operations on difficult-to-machine metals. It can effectively reduce smog and improve surface finishing of the workpieces.

SMARPHOS P7800 can be used as a main anti-corrosion additive in water-based formulations for the aluminium and magnesium alloy processing fluids. The dosage can be in the range of 0.5-6% in formulations.

SMARPHOS P7800 becomes translucent emulsion when diluted with water. It can replace sulfur and chlorine EP additives to provide superior anti-wear and EP properties in water-based formulations, such as soluble oils, rolling oils and semi-synthetic fluids.

Applications

Oil-Based Formulations
 Water-Based Formulations

Suggested Treat Rates, %wt

2 - 5
 1 - 2

Print date: 28-07-24

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.