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 the 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.

ApplicationsSuggested Treat Rates, %wtOil-Based Formulations2 - 5Water-Based Formulations1 - 2

Print date: 03-05-24