

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

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