

Supplier - SMART OIL  
**SmartPhos P3212**  
*Tridodecyl Phosphite*  
*Phosphate Containing Additives*

### Typical Properties

Appearance	Pale Yellow Liquid
Specific Gravity@25°C	0.860 - 0.900
Viscosity@40°C, cSt	14.0 - 18.0
Phosphorus Content, %wt.	>5.3
Acid Value, mgKOH/g	< 160
Flash Point C.O.C., °C	> 105
P <sub>B</sub> /P <sub>D</sub> , kg+	128 / 400

\*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 P3212** is a light color, low odor, and high phosphorus product; which has good compatibility with mineral oils, synthetic oils and esters. The product can be applied to the oil-based formulations to booster the anti-wear and extreme pressure characteristics.

**SMARTPHOS P3212** has good hydrolytic and thermal stabilities; so it can also be used in water-based formulations. It contains no phenolic compound and has no adverse effect on the environment.

**SMARTPHOS P3212** can replace animal fats and chlorinated paraffins in formulations, smoke evolution and tool consumption can hence be reduced. Beside, when the product is used together with sulfur-containing additive, synergistic effect can be attained. The dosage of sulfur compound can be reduced, and product cleanliness and precision can be effectively elevated.

**SMARTPHOS P3212** can be applied in formulations of ferrous and non-ferrous metals. It is specially good in rolling oil applications.

#### **Applications**

General Application

#### **Suggested Treat Rates, %wt**

0.5 - 10

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