

Supplier - SMART OIL  
**SmartPhos 3273**  
*Phosphite Ester*  
*Phosphate Containing Additives*

### Typical Properties

Appearance	Clear Transparent
Specific Gravity@25°C	0.800-0.900
Viscosity@40°C, cSt	16-18
Phosphorus Content, %wt	>4.5
Acid Value, mgKOH/g	<30
Flash Point C.O.C., °C	145
P <sub>B</sub> /P <sub>D</sub> , kg+	71/ 126

++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 P3273** is a long chain phosphite ester additive which has good lubrication, anti-friction, anti-wear, extreme pressure and antioxidant characteristics; the product can effectively boost the machining accuracy and extend the tool life. Besides, the low acid property can get the shelf life of working fluid prolonged.

**SMARTPHOS P3273** is non-corrosive and can be used to process non-ferrous and ferrous metals. Its high extreme pressure and anti-wear characteristics can get the tool and fluid life extended.

**SMARTPHOS P3273** is a molecule, belong to large molecular structure; and good thermal stability, which get it have good hydrolytic stability.

**SMARTPHOS P3273** can be used in the formulation of water-based fluid for rolling, forming or stamping process.

#### Applications

General application

#### Suggested Treat Rates, %wt

0.5-3

Print date: 21-01-26

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