

**Supplier - SMART OIL**  
**SmartPhos P3256**  
*Z,Z-di-9-Octadecenyl Phosphate*  
*Phosphate Containing Additives*

### Typical Properties

Appearance	Dark Amber Liquid
Specific Gravity@25°C	0.850-0.950
Viscosity@40°C, cSt	30-45
Phosphorus Content, %wt	> 5.0
Acid Value, mgKOH/g	<10
Flash Point C.O.C., °C	> 170
P <sub>B</sub> /P <sub>D</sub> , kg+	128/315

\*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 P3256** is a dioleylphosphite; which can be used in water-based formulations to elevate antiwear property.

**SMARTPHOS P3256** is not easy to be hydrolyzed due to large molecular structure. It possesses high thermal stability and contains no phenolic moiety, so is not detrimental to the environment.

**SMARTPHOS P3256** can be used as anti-friction and lubricating agent. When added at 0.5-2% to the working fluids, it can enhance finishing of the workpieces.

**SMARTPHOS P3256** is suitable for processing yellow metals. It also exhibits good anti-friction performance in formulations of steel rolling oils, and surface finishing of the workpieces can be enhanced.

### Applications

General Application

### Suggested Treat Rates, %wt

0.5 - 3