

Supplier - SMART OIL  
**Smart Base PN8700**  
*Phosphate Nitrogen Compound*  
*Phosphate Containing Additives*

**Typical Properties**

Appearance	Deep Amber Liquid
Specific Gravity@25°C	0.800 - 1.200
Viscosity@40°C, cSt	8900 - 9500
Nitrogen Content, %wt	3.50
Phosphorus Content, %wt	4
Acid Value, mgKOH/g	< 170
Flash Point C.O.C., °C	> 200
P <sub>B</sub> /P <sub>D</sub> , kg+	61 / 200

\*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**

**SMART BASE PN8700** is an excellent antiwear and EP additive; suitable for replacing chlorinated paraffin in water-based formulations. The product is suitable for machining alloy steels, titanium alloys, and non-ferrous metals.

**SMART BASE PN8700** can effectively elevate the surface finishing of workpieces. At the same time, it can strengthen the emulsion stability of water-based products.

**SMART BASE PN8700** has higher acid value, so cannot be used with the over-based calcium sulfonate; it can be neutralized by mixing with the TEA prior to blending with other additives.

**Applications**

General Application

**Suggested Treat Rates, %wt**

3.0 - 8.0

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