

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 _B /P _D , kg+	61 / 200

*4 Ball Wear Test; 5% additive in SN150, Server Motor Speeds reach 1500rpm (P_B) and 1760rpm (P_D) 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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