

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

Print date: 05-07-26

Disclaimer: Information provided by this website and product page including specifications, applications and formulations are based on tests and data supplied by Smart Oil companies, manufacturers or any of our collaborated companies or suppliers, which are believed to be correct and reliable at the time of writing and data update. However, Smart Oil companies, manufacturers or any of our collaborated companies or suppliers make no warranty or responsibility, express or implied, of any kind regarding products, performance, formulations or applications, as operation conditions and application environments are beyond our control, or products will be modified by action of manufacturers or due to change in market environments. Users are herewith expressly requested to conduct test to determine the suitability of our products or product information before use. Furthermore, we regret that we cannot be responsible for informing customers any changes in specifications, formulations, or other technical contents on this website and product page. Also, We hereby state that all product trademarks other than Smart Oil, including trademarks from our , suppliers are the trademarks belong to the respective companies, or from their sources.