

Typical Properties

Appearance	Clear Yellow
SG	0.900-1.000
Viscosity@40°C, cSt	1800-2200
Acid Value, mgKOH/g	<15
Flash Point C.O.C., °C	>270
Viscosity Index	> 170
Mineral Oil Content	Nil
5%ADDITIVE+95%SN150 PB/PD,kg	52/160
5%ADDITIVE+5%SMART BASE 2517+90%SN150 P _B /P _D ,kg+	94/500
Std Packaging (NW / GW, Kg)	195.0 / 212.0

Product Description

SMART HMPE 9380 is a high viscosity, light color, high molecular weight polymeric ester that contain no sulphur, chlorine and phosphorous. Due to its unique molecular structure and high affinity characteristics, it can adhere tightly to the metal surface even at elevated temperature, which perform outstanding anti-frictional and anti-wear properties of lubricant. In addition, the characteristics of medium viscosity make used as a multi-functional viscosity regulator.

SMART HMPE 9380 has a high degree of saturation that can prevent contamination from oxidation.

SMART HMPE 9380 process the characteristics of high temperature stability, low temperature fluidity, low volatility, high viscosity index and good shear stability, which can cover the functions of lubricating, anti-wear and extreme pressure at different temperatures in the contact point during machining, and hence both tool and coolant life can be prolonged.

SMART HMPE 9380 can replace the sulphur, chlorine and phosphorous containing additives with similar performance. Moreover, it can avoid the reduction of product shininess due to the chemical reaction of the extreme additive with the metal during machining. Besides, SMART HMPE 9380 can also be blended with sulfurized EP additives to achieve synergistic effect.

SMART HMPE 9380 has good compatibility with mineral oil, synthetic oil and synthetic ester with easy blending. Product has good cleaning characteristics and is readily biodegradable.

SMART HMPE 9380 is an ashes additive and has no residue during high temperature operation. It has no corrosion to non-ferrous metals and is suitable for cutting, drawing, and stamping operation for aluminium alloy.

SMART HMPE 9380 is also suitable for the formulations of gear oil, grease, refrigerating oil and other metal working fluids.

Applications

Threading / Tapping / Cold Head (Cut Side Only)
 Drawing
 Automatic Screw Machines / Stamping

Suggested Treat Rates, %wt

3 - 15
 5 - 15
 2 - 5

Print date: 02-07-25

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.