

Supplier - SMART OIL

**Smart HMPE 9340***High Mwt. Polyester Ester**High Molecular Wt Polymeric Ester***Typical Properties**

Appearance	Clear Yellow
Specific Gravity@25°C	0.950-1.050
Viscosity@40°C, cSt	550-750
Acid Value, mgKOH/g	<15
Flash Point C.O.C., °C	>220
Viscosity Index	> 150
Mineral Oil Content	Nil
5%ADDITIVE+95%SN150 P <sub>B</sub> /P <sub>D</sub> ,kg+	71/160
5%ADDITIVE+5%SMART BASE 2517+90%SN150 P <sub>B</sub> /P <sub>D</sub> ,kg+	100/400

\*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 HMPE 9340** is a medium 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 9340** has a high degree of saturation that can prevent contamination from oxidation.

**SMART HMPE 9340** 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 9340** 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 9340 can also be blended with sulfurized EP additives to achieve synergistic effect.

**SMART HMPE 9340** 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 9340** 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 9340** 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

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