

Typical Properties

Appearance	Amber Liquid
Specific Gravity@25°C	0.900 - 1.000
Viscosity@40°C, cSt	95 - 145
Acid Value, mgKOH/g	< 30
Flash Point C.O.C., °C	> 250
Viscosity Index	> 175
Mineral Oil Content	Nil
5%ADDITIVE+95%SN150	61 / 126
5%ADDITIVE+5%SMART BASE 2517+90%SN150	94 / 315
Net Packaging (NW / GW, Kg)	212.0 / 195.0

Product Description

SMART HMPE 9370 is a clear amber high molecular weight polymeric ester that contains no sulfur, chlorine and phosphorous. Due to its unique molecular structure and high-affinity characteristics, it can adhere tightly onto the metal surfaces even at elevated temperatures, which exhibits outstanding anti-frictional and anti-wear properties of lubricant. Due to its strong hydrolytic stability, it can be used in water-based coolant formulations.

SMART HMPE 9370 has a high degree of saturation that can prevent contamination from oxidation.

SMART HMPE 9370 possesses high temperature stability, low temperature fluidity, low volatility, high viscosity index and good shear stability; which can maintain the corresponding functions of lubricating, anti-wear and extreme pressure at different temperatures at the contact points during machining, and hence effective temperatures for operations can be extended and longer lubricant life attained.

SMART HMPE 9370 can replace sulfur, 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 metals during machining. Besides, SMART HMPE 9260 can also be blended with small quantity of extreme additives to attain synergistic effect.

SMART HMPE 9370 has good compatibility with mineral oils, synthetic oils and synthetic esters to impart easy blending. Product has good cleaning characteristic and is readily biodegradable.

SMART HMPE 9370 is an ash-less additive and has no residue during high temperature operations. It exhibits no corrosion to non-ferrous metals and is suitable for cutting, drawing, and stamping operations on aluminum alloys.

Applications**Suggested Treat Rates, %wt**

Threading / Tapping / Cold Head (Cut Side Only)	3 - 15
Drawing	5 - 15
Automatic Screw Machines / Stamping	2 - 5

Print date: 16-09-25

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