Supplier - SMART OIL

Smart HMPE 9320

High Mwt.Polyester Ester

Typical Properties

Appearance	Clear Yellow to Light Amber Liquid
Specific Gravity@25℃	0.900-1.000
Viscosity@40℃, cSt	215 - 250
Acid Value, mgKOH/g	≤20
Flash Point C.O.C.,℃	> 245
Viscosity Index	> 165
Mineral Oil Content	Nil
5%ADDITIVE+95%SN150 P_B/P_D,kg+	61 / 160
5%ADDITIVE+5%SMART BASE 2517+90%SN150 P_B/P_D,kg+	94 / 315
Std Packaging (NW / GW, Kg)	212.0 / 195.0

Product Description

SMART HMPE 9320 is a clear yellow high molecular weight polymeric ester that contain no sulfur, chlorine and phosphorous. Due to its unique molecular structure and high affinity characteristics, it can adhere tightly to the metal surface even at elevated temperatures, which performs outstanding anti-frictional and anti-wear properties of lubricants. It can be used in several operations like oil-based formulations, soluble oils and semi-synthetic systems.

SMART HMPE 9320 has a high degree of satuation that can prevent contamination at contact points of tools and metal surfaces from oxidation.

SMART HMPE 9320 has high temperature stability and hydrolytic stability, which can extend coolant life even at tough processing.

SMART HMPE 9320 can replace sulfur, chlorine and phosphorous containing additives with similar performance. Moreover, it can avoid the reduction of product shininess due to the otherwise chemical reaction of the extreme additive with the metals during machining.

SMART HMPE 9320 possesses high viscosity index and good shear stability; which can maintain the corresponding functions of lubricatiion, anti-wear and extreme pressure at elevated temperatures at contact points during machining.

SMART HMPE 9320 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

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