Supplier - SMART OIL

# Smart HMPE 9370

*High Mwt.Polyester Ester*

## Typical Properties

| | |
|---|---|
| Appearance | Amber Liquid |
| Specific Gravity@25℃ | 0.900 - 1.000 |
| Viscosity@40℃, cSt | 95 - 145 |
| Acid Value, mgKOH/g | < 30 |
| Flash Point C.O.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 |
| Std 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 satuation that can prevent contamination from oxidation.

**SMART HMPE 9370** ossesses 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, SMARTHMPE 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*