

Supplier - SMART OIL
Smart PE1586
*Pentaerythritol Complex Ester
 Polyol Ester*

Typical Properties

Appearance	Clear Amber Liquid
Specific Gravity@25°C	0.900 - 1.000
Viscosity@40°C, cSt	450 - 600
Acid Value, mgKOH/g	< 15
Flash Point C.O.C., °C	> 290
Viscosity Index	> 170
Mineral Oil Content	Nil

Product Description

SMART PE1586 is a clear light amber trimethylolpropane compound ester, which possesses unique structure that contributes a strong affinity property to the metal surface; resulting to maintain superior lubricating properties and anti-frictional characteristics even under high temperature during processing.

SMART PE1586 is designed for the blenders to manufacture water-based or oil-based cutting fluids for steel rolling, aluminum or copper drawing fluid applications.

SMART PE1586 has a high degree of saturation that can prevent contamination from oxidation.

SMART PE1586 can effectively replace the sulfur, chlorine and phosphorous containing compounds as EP additives. In addition, it can avoid the adverse effect on product shininess due to the otherwise chemical reaction of the extreme additives with the metal during machining.

SMART PE1586 has high viscosity index and good shear stability, which can maintain lubrication, wear resistance and extreme pressure performance at the contact points between the tool and the workpiece at high temperature.

SMART PE1586 is an ashless 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 operations for aluminum alloys.

SMART PE1586 has good compatibility with mineral oils, synthetic oils and synthetic esters with easy blending.

SMART PE1586 is a biodegradable product that can replace mineral oils as a lubricant on top of its multifunctional characteristics in cutting fluid.

Print date: 20-01-26

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 expressively 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.