

Supplier - SMART OIL

**Smart PE1586***Pentaerythrityl 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.

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