

Supplier - SMART OIL  
**Smart TMP1806**  
*Trimethylolpropane Complex Ester*  
*Polyol Ester*

### Typical Properties

Appearance	Clear Yellow to Light Amber Liquid
Specific Gravity@25°C	0.900 - 1.000
Viscosity@40°C, cSt	215 - 250
Acid Value, mgKOH/g	< 20
Flash Point C.O.C., °C	> 245
Viscosity Index	> 160
Mineral Oil Content	Nil

### Product Description

**SMART TMP1806** is a clear light amber trimethylolpropane compound ester, which possesses unique structure that contributes a strong affinity property to the metal surface; which results to maintain superior lubricating properties and anti-frictional characteristics even under high temperature during processing.

**SMART TMP1806** is designed for the blenders to manufacture water-based or oil-based cutting fluid for steel rolling, aluminum or copper drawing fluid applications.

**SMART TMP1806** has a high degree of saturation that can prevent contamination from oxidation.

**SMART TMP1806** 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 TMP1806** 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 TMP1806** 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 operation for aluminum alloys.

**SMART TMP1806** has good compatibility with mineral oils, synthetic oils and synthetic esters with easy blending.

**SMART TMP1806** is a biodegradable product that can replace mineral oil as a lubricant on top of its multifunctional characteristics in cutting fluids.

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