

**Typical Properties**

Appearance@25°C	Clear Light-colored Liquid
Color,ASTM D1544,Gardner/D1500	≤ 6/2.0
Kinematic Viscosity@40°C,cSt	≥ 41
Kinematic Viscosity@100°C,cSt	≥ 9.0
Density@25°C,Lb/Gal(kg/L)	7.7 (0.920)
Total Acid Value,mgKOH/g	≤ 1.0
Pour Point,°C(°F)	≤ -25 (-13)
Moisture Content,%wt	≤ 0.1
Flash Point C.O.C.,°C(°F)	≥ 300 (572)
Fire Point C.O.C.,°C(°F)	≥ 360 (680)
Saponification Number,mgKOH/g	175-185

**Product Description**

**Adtec™ 133** is a high quality TMP ester of oleic acid with excellent low and high temperature properties shown to be fire-resistant. It is also proven to be biodegradable according to the European 21 days and EPA 28 days biodegradability tests. It is a natural ISO 46 grade ester with very high VI (200).

**Applications:**

**Adtec™ 133** has found application in the metalworking area for steel milling, grinding, cutting oils, hot or cold rolling oils and drawing lubricants. Since it is highly stable at high temperatures and readily biodegradable, it can be used as a base stock for fire-resistant hydraulic oils for outdoor mobile equipment.