



UCON™ TPEG 500 and TPEG 990

UCON™ Fluids and Lubricants

Product Description

UCON™ TPEG 500 and TPEG 900 are both polymers of ethylene oxide. Their unique structure allows them to remain a liquid at temperatures that would cause other polyethylene oxides to solidify into a wax. They find industrial applications as a lubricant base, as a chemical intermediate, and as an additive for the properties they impart. These properties include complete water solubility, cleanliness, clean burn-off, and high temperature stability.

Typical Physical Properties

	TPEG 500	TPEG 990
Appearance	Clear liquid	Clear liquid
Molecular Weight	500	990
Specific Gravity, 20/20°C (68/68°F)	1.151	1.139
Pour Point, ASTM D 97, °C (°F)	-34 (-29)	-5 (23)
Flash Point, Closed Cup, °C (°F), ASTM D 93	212 (415)	218 (425)
Flash Point, Open Cup, °C (°F), ASTM D 92	276 (530)	268 (515)
Viscosity, cSt at 40°C (104°F)	77	123
Coefficient of Expansion (per °C @ 20°C)	0.00072	0.00074
Vapor Pressure (mm, 20°C)	Nil	Nil
Solubility – In Water	Complete	Complete
- In Mineral Oil	Insoluble	Insoluble
Color (Pt)	< 100	< 100

†Typical properties, not to be construed as specification.

Product Stewardship

Dow encourages its customers and potential users to review their applications from the standpoint of human health and environmental aspects. To help ensure that Dow products are not used in ways for which they are not intended or tested, Dow personnel will assist customers in dealing with environmental and product safety considerations. Dow literature, including Material Safety Data Sheets, should be consulted prior to the use.

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