

TEXOL

Chemical

Technical Data Sheet

Texol Silicone Oil™ Series

Colorless, clear polydimethylsiloxane fluid

Product Description

Texol Silicone Oil™ Series are polydimethylsiloxane polymer manufactured to yield essentially linear polymers in a wide range of average kinematic viscosities.

The viscosities generally used in formulating polishes are between 50 and 30,000 cSt. To obtain optimum results, in terms of ease of application and depth of gloss, it is preferable to use a blend of a low-viscosity fluid and a high-viscosity fluid Texol Silicone Oil™. The low-viscosity silicone fluid acts as a lubricant to make polish application and rubout easier, whereas the high-viscosity silicone fluid produces a greater depth of gloss. Since these polymers are inherently water-repellent, they will cause water to bead up on a treated surface rather than penetrate the polish film.

Applications and Uses

- Active ingredient in a variety of automotive, furniture, metal and specialty polishes in paste, emulsion and solvent-based polishes and aerosols
- Various applications including cosmetic ingredient, elastomer and plastics lubricant, electrical insulating fluid, foam preventive or breaker, mechanical fluid, mold release agent, surface active agent, and solvent-based finishing and fat liquoring of leather

Advantages

- Ease of application and rubout
- Ease of buffing
- Enhances color
- High water repellency
- High compressibility
- High shearability without breakdown
- High spreadability and compatibility
- Low environmental hazard
- Low fire hazard
- Low reactivity and vapor pressure
- Low surface energy
- Good heat stability
- Essentially odorless, tasteless and nontoxic
- Soluble in a wide range of solvents

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Typical Properties

Property (Unit)	E50	E100	E200	E350	E500	E1000	Method
Density at +15 °C	960	964	967	969	970	970	DIN 51757
Viscosity @40°C, cSt	50	100	200	350	500	1000	DIN 51550
Viscosity @100°C, cSt	11.5	22.9	33.2	58.6	78.9	151.8	DIN 51550
ISO Viscosity Grade	50	100	200	350	500	1000	DIN 51519
Viscosity Index	216	222	225	236	241	264	DIN ISO 2909
Flash Point, °C	318	326	330	330	330	330	DIN ISO 2592
Pour Point, °C	-70	-65	-65	-50	-50	-50	DIN ISO 3016
Four ball weld load, N	1800	1800	1800	1900	1900	2200	DIN 51350-02
Four ball wear test, mm				0.32			DIN 51350-03
FZG test (A/8.3/90)				>21			DIN 51354

Technical Expertise

Texol experts on Texol Silicone Oil™ series lubricants are regionally located to respond to your needs. Whether you have a question about products, applications or regulations, Texol offers comprehensive customer and technical service.