



Durasyn 166 polyalphaolefin is a fully synthesized distilled and hydrogenated hydrocarbon base fluid produced from linear alphaolefin feed stocks. Its engineered physical and performance properties are designed to extend the service life and enhance the performance of fully formulated lubricants operating under continuous low, high, or wide temperature range conditions.

Prospective Applications

- Automotive engine oil and transmission fluid
- Industrial gear oil
- Hydraulic oil

Compatibility

Durasyn 166 has been engineered to be either near or direct substitutes for existing PAO base oils and premium quality mineral oils. Compatibility with metals, elastomers, coatings, and sealants is similar to fully synthesized PAO base oils. Solubility also closely matches other fully synthesized hydrocarbon base oils.

Specifications

Property	Typical Value	Test Method
Viscosity at 100°C (cSt)	5.8	ASTM D445
Viscosity at 40°C (cSt)	30.7	ASTM D445
Viscosity at -40°C (cSt)	7985	ASTM D445
Pour Point (°C)	-63	ASTM D97
Flash Point (°C)	245	ASTM D92
Noack Volatility at 250°C for 1 hour (wt %)	6.8	CEC L40-A-93
Water (ppm)	11	ASTM D3401
Bromine Number (g Br ₂ /100 g)	0.1	IP-129
Total Acid Number (mg KOH/g)	<0.01	ASTM D974
Specific Gravity at 15.6°C	0.82	ASTM D4052
Appearance	Clear & Bright	-

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