



**Durasyn 142 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

- Ultra-low viscosity automotive engine oil
- Electric vehicle lubricant and thermal fluid
- Industrial lubricants
- Data center thermal fluid

### Compatibility

Durasyn 142 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)	2.4	ASTM D445
Viscosity at 40°C (cSt)	8.6	ASTM D445
Viscosity at -40°C (cSt)	722	ASTM D445
Pour Point (°C)	-57	ASTM D97
Flash Point (°C)	188	ASTM D92
Noack Volatility at 200°C for 1 hour (wt %)	9.1	CEC L40-A-93
Water (ppm)	11	ASTM D3401
Bromine Number (g Br <sub>2</sub> /100 g)	0.05	IP-129
Total Acid Number (mg KOH/g)	<0.01	ASTM D974
Specific Gravity at 15.6°C	0.81	ASTM D4052
Appearance	Clear & Bright	-

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