



**Durasyn 180i 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

- Wind turbine gear oil
- Heavy duty industrial lubricants
- Viscosity thickener

### Compatibility

Durasyn 180i 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)	134	ASTM D445
Viscosity at 40°C (cSt)	1,261	ASTM D445
Viscosity Index	215	ASTM D2270
Pour Point (°C)	-37	ASTM D97
Flash Point (°C)	290	ASTM D92
Water (ppm)	8	ASTM D3401
Bromine Number (g Br <sub>2</sub> /100 g)	0.2	IP-129
Total Acid Number (mg KOH/g)	<0.1	ASTM D974
Specific Gravity at 15.6°C	0.85	ASTM D4052
Appearance	Clear & Bright	-

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