



**Durasyn 185 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 185 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)                  | 170            | ASTM D445   |
| Viscosity at 40°C (cSt)                   | 1,627          | ASTM D445   |
| Viscosity Index                           | 225            | ASTM D2270  |
| Pour Point (°C)                           | -39            | ASTM D97    |
| Flash Point (°C)                          | 274            | ASTM D92    |
| Water (ppm)                               | 6              | 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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