INEOS Oligomers

Product Datasheet

Durasyn® 176

Durasyn 176 polyalphaolefin is a metallocene catalyzed, fully synthesized distilled and hydrogenated hydrocarbon base fluid produced from C10 linear alphaolefin feedstocks. 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.

Features and Benefits

Inherently thermally stable	⇨ Resistant to thermal break down under non-routine high temperature excursions
Inherently oxidation resistant	⇨ Allows the formulation of extended drain lubricants
Engineered to be highly shear stable	⇨ Maintains viscosity grade over extended service life intervals
Designed-in broad range viscometrics	⇨ Suitable for exposure to low or high start-up or operating temperatures, or operation over wide temperature ranges

Intended Applications

Durasyn 176 is engineered for use in a wide variety of applications where the physical and performance properties of fully synthesized PAOs could be beneficial including:

- Wind Turbine Lubricants
- Gear Oils
- Compressor Oils
- Greases
- Industrial Oils

Compatibility

Durasyn 176 has been engineered to be either near or direct substitutes for existing PAO base oils and premium quality oils. Compatibility with metals, elastomers, coatings and sealants is similar to other fully synthesized PAO base oils. Solubility is also similar to other fully synthesized PAO base oils.

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TYPICAL PROPERTIES

Property	Test Method ISO/ASTM	Unit Value
Viscosity, mm^2/s (cSt), 100°C	D445	63
Viscosity, mm^2/s (cSt), 40°C	D445	545
Viscosity Index	D2270	189
Pour Point, °C	D97	-45
Flash Point, °C	D92	277
Neutralizing Number (TAN), mg KOH/g	D974	<0.01
Bromine Number, g Br_2/100 g	IP-129	0.02
Specific Gravity, 15.6°C/ 15.6°C	D4052	0.85
Water, ppm	D3401	19
Color	D1500	<0.5