INEOS Oligomers

Product Datasheet

Durasyn® 174 I

Durasyn 174 I high viscosity polyalphaolefin is a fully synthesized and hydrogenated hydrocarbon base fluid produced from C10 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.

Features and Benefits

Inherent thermal stability	⇨	Resistant to thermal break down under high temperature conditions.
Inherently resistant to oxidation	⇨	Allows the formulation of extended drain lubricants
Engineered to be highly shear stabile	⇨	Maintains viscosity grade over extended service life
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 174 I is engineered for use in a wide variety of applications where the physical and performance properties of fully synthesized PAOs can be beneficial including:

- Gear Oils
- Compressor oils
- Greases
- Industrial Oils

Compatibility

Durasyn 174 I has been engineered to be either a near or direct substitute for existing PAO fluids and premium quality oils. Compatibility with metals, elastomers, coatings and sealants is similar to other fully synthesized PAO base fluids. Solubility is also similar to other fully synthesized PAO base oils.

TYPICAL PROPERTIES

Property	Test Method ISO/ASTM or	Unit Value	Typical Range
Specific Gravity, 15.6°C (60°F), kg/l (LB/gal)	12185 / D4052	0.846	0.840 – 0.860
Viscosity Index	2909 / D2270	186	170 min
Viscosity, mm2/s (cSt), 100°C (212°F)	3104 / D445	50.3	45.0 – 55.0
Viscosity, cSt, mm2/s (cSt), 40°C (104°F)	3104 / D445	411.8	360 - 430
Water, ppm	D3401	8	50 Max

Refer to the reverse page of this bulletin for important technical, liability and warranty information

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DURASYN 174 I TYPICAL PROPERTIES (Continued)

Property	Test Method ISO/ASTM or	Unit Value	Typical Range
Pour Point, °C (°F)	3016 / D97	-47	-35 max
Flash Point COC, °C (°F)	2592 / D92	286	266 min
Flash Point PMC, °C (°F)	2592 / D93	246	-
Noack Volatility, 250°C, 1hr,%wt. Evap.	CEC L-40-A-93	1.8	2.5 max
Neutralizing Number (TAN), mg KOH/g	6618 / D974	0.005	<0.1 max
Bromine Number, g Br/100 g	--/ IP-129	0.2	0.4 max
Appearance		Clear/Bright	Observation
Color	D1209	<0.5	50 max
% Transmission @ 440 nm		99	>98

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