

### 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 stable** ⇒ 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
<b>Specific Gravity</b> , 15.6°C (60°F), kg/l (LB/gal)	12185 / D4052	0.846	0.840 – 0.860
<b>Viscosity Index</b>	2909 / D2270	186	170 min
<b>Viscosity</b> , mm <sup>2</sup> /s (cSt), 100°C (212°F)	3104 / D445	50.3	45.0 – 55.0
<b>Viscosity</b> , cSt, mm <sup>2</sup> /s (cSt), 40°C (104°F)	3104 / D445	411.8	360 - 430
<b>Water</b> , ppm	D3401	8	50 Max

# Product Datasheet

## DURASYN 174 I TYPICAL PROPERTIES (Continued)

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

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