



## SynOil PAOs(PolyAlphaolefin) (Highly Branched Isoparaffinic PolyAlphaolefin)

SynOil PAOs are specially designed chemicals that are uniquely made from alpha olefins. These stable molecules are produced by Steam cracking hydrocarbons to produce ultra-high-purity ethylene, Ethylene oligomerization to develop 1-decene and 1-dodecene & Decene or dodecene oligomerization to form a mixture of dimers, trimers, tetramers and higher oligomers.

### Applications

SynOil PAOs can be used in many industrial and automotive lubricant applications. These include gear oils, compressor oils, engine oils, hydraulic fluids, greases, and other functional fluids.

### Features & Benefits

- Greater oxidative stability
- Superior volatility
- Excellent low-temperature viscosities
- Consistent, quality base stock
- Extremely high viscosity index
- Excellent pour points
- Pure petrochemical feed stocks

### Typical Properties

Property	Value				
cSt	2	4	8	65	150
Appearance	C & B	C & B	C & B	C & B	C & B
Color, Pt-Co	0	0	0	0	0
Odor	No Foreign				
Specific Gravity, 60°/60°F, 15.6°/15.6°C	0.7981	0.8190	0.8326	0.8460	0.849
Kinematic Viscosity, cSt @ 212 °F, 100°C	1.7	3.9	7.8	65	156
Kinematic Viscosity, cSt @ 104°F, 40°C	5.1	16.8	46.4	605	1719
Kinematic Viscosity, cSt @ -40°F, -40°C	260	2498	19574	-	-
Viscosity Index	-	124	138	181	205
Pour Point, °C	-73	-68	-56	-46	-39
Flash Point (COC), °C	158	226	262	266	278
Bromine Index	<200	<200	<200	<400	<400
Total Acid Number	<0.03	<0.03	<0.03	-	-
Volatility, Noack , wt%	-	13.4	3.5	-	-