

PRODUCT SPECIFICATION

Product	NORBO32 Base Oil
Document Number	PS-005
Version	6.0
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Property	Units	Method	Specification
Appearance	-	ASTM D4176	Clear & Bright
Colour	-	ASTM D1500	1.0 max
Density	kg/L	ASTM 4052	0.86*
Kinematic Viscosity @ 40C	mm ² /s	ASTM D7042	28-35
Kinematic Viscosity @ 100C	mm ² /s	ASTM D7042	4.9-5.9
Viscosity Index	-	ASTM D2270	109 min
Flash Point	°C	ASTM D93	200 min
Water	mg / kg	ASTM 6304	100 max
Corrosion Copper Strip	(3hr @ 100C)	ASTM D130	1A max
Pour Point	°C	ASTM D97	-6 max
Total Acid Number	mg (KOH) /g	ASTM D974	0.03 max
Polyaromatic Hydrocarbons	mg / kg	SWA-846 8275	400 max
Polychlorinated Biphenyls	mg / kg	SWA-846 8082	2.0 max
dioxins/furans	WHO-TEQ pg / g	EPA D974-97	10 max
Modified AMES test	Mutagenicity Index	ASTM E1687	1 max
Heavy Metals: As, Cr, Cd, Pb	mg / kg	ASTM D5185	1 max
Metals: Ag, Al, B, Ba, Ca, Cu, Fe, Mg	mg / kg	ASTM D5185	<1
Metals: Mn, Mo, Na, Ni, Sn, Ti, Zn	mg / kg	ASTM D5185	<1
Metals: Si, P	mg / kg	ASTM D5185	<5
Distillation: 5% / 50% / 95%	°C / °C / °C	ASTM D86	360 / 457 / 525*
Foaming Tendency (Seq'II)	mL / mL	ASTM D892	30/Nil*
Water Separation @54°C	m L/ mL / mL	ASTM D1401	40/38/2 (10 min)*
Conradson Carbon Residue	% w/w	ASTM D189	0.01*
Aniline Point	°C	ASTM D611	105*
Volatility(NOACK conversion)	%	ASTM D5800	14.6*
Paraffin/Naphtha/Aromatic	%w/w	ASTM D2140	67/30/3*
Saturates	%w/w	ASTM D2007	90 min
Ash content	%w/w	ASTM D482	0.01*
Sulphur	%w/w	ASTM D2622	0.1*

* Not specified, typical results only noted