

High- Performance Sustainable Synthetic Base Oil (SSBO)



SynNova® base oils are produced from plants, which are converted to pure hydrocarbon molecules. SynNova base oils are pure compounds, containing none of the impurities found in conventional base oils derived from crude petroleum. SynNova is designed to face the toughest lubricant challenges. They are engineered to be compatible with a wide range of additive packages to formulate lubricants for a range of applications from automotive engine oils to process and industrial oils. SynNova base oils improve upon key environmental metrics including biodegradability, toxicity, and renewability to enable the formulation of lubricants with reduced environmental impact, in addition to the best performance.

FEATURES	BENEFITS
Environmentally Friendly	100% renewable to reduce carbon footprint
Compatibility	Utilize existing infrastructure for product use and disposal
Low pour point	Performs in cold environments
Low volatility	Minimal evaporative losses, no VOC
No sulfur content	Contributes to lower emissions
Improved biodegradability	Reduces potential for environmental damage caused by spills or leakage
High Viscosity Index	Enables product use over a wide temperature range

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TYPICAL PROPERTIES

Properties	Method	SynNova 4
Appearance	Visual	Bright and Clear
Color	ASTM D156	+30
Density, 15°C (kg/l)	ASTM D4052	0.819
Viscosity, 40°C (cSt)	ASTM D7042	19.0
Viscosity, 100°C (cSt)	ASTM D7042	4.3
Viscosity Index	ASTM D2270	137
Pour point (°C)	ASTM D5949	-43
Flash point (°C)	ASTM D92	230
Bromine Index	ASTM D2710	< 200
CCS @ -35°C (cP)	ASTM D5293	1,750
Evaporative Loss NOACK (%)	ASTM D5800	8
Octanol-Water Partition Coefficient (log K _{ow})	EPIWIN Calculation	> 7
Biodegradability (%)	OECD 301B	> 70%
Biobased Carbon Content	ASTM D6866 ¹	100%
Ecotoxicity	OECD 201, 202 & 203	Pass

1 = Key raw materials are agriculturally sourced

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

