

## Renewably-Sourced High Performance Synthetic Base Oil



SynNova base oils are exclusively produced from sustainable plant feedstocks, which are converted to designer hydrocarbon molecules using a proprietary platform technology. Decoupled from crude petroleum, SynNova base oils are pure compounds, containing no sulfur, PAHs or polar species found in conventional process oils. Designed to perfectly straddle the balance between performance and sustainability, SynNova 4 performs in the most strenuous applications, while improving key environmental metrics like biodegradability, toxicity, and renewability. As a new to the world sustainable hydrocarbon process oil, SynNova 4 is positioned to be the premiere petro-alternative.

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 D445	19.0
Viscosity, 100°C (cSt)	ASTM D445	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 <sub>ow</sub> )	EPIWIN Calculation	> 7
Biodegradability (%)	OECD 301B	> 70%
Biobased Carbon Content	ASTM D6866 <sup>1</sup>	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.

