

Renewably-Sourced Premium Process 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 9 performs in the most strenuous applications where oxidative stability, best in class volatility and color are critical to success, whilst simultaneously improving key environmental metrics like biodegradability, toxicity, and renewability. As a new to the world sustainable hydrocarbon process oil, SynNova 9 is positioned to be the premiere petro-alternative.

FEATURES	BENEFITS
Environmentally Friendly	100% renewable to reduce carbon footprint
Compatibility	Rubber compounds & other process oils
Low pour point	No compromise of rubber/elastomer Tg
Low volatility	Minimal evaporative losses, no VOC during processing, reduces fogging, enhances flexibility retention
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

Renewably-Sourced Premium Process Oil

TYPICAL PROPERTIES

Properties	Method	SynNova 9
Appearance	Visual	Bright and Clear
Color	ASTM D156	> 28
Density, 15°C (kg/l)	ASTM D4052	0.835
Viscosity, 40°C (cSt)	ASTM D445	58.5
Viscosity, 100°C (cSt)	ASTM D445	9.5
Aniline Point (°C)	ASTM D611	138
Pour point (°C)	ASTM D5949	-21
Flash point (°C)	ASTM D92	260
Bromine Index	ASTM D2710	< 200
Octanol-Water Partition Coefficient (log K _{ow})	EPIWIN Calculation	> 7
Biodegradability (%)	OECD 301B	> 20%
Biobased Carbon Content	ASTM D6866 ¹	100%
Ecotoxicity	OECD 201, 202 & 203	Pass
Carbon Type Analysis (%)		
• Ca		<1
• Cn	HPLC	<1
• Cp		>99

Application space for SynNova 9 process oil:

Agricultural sprays
Automotive interiors
Coatings, adhesive & sealants
Dielectric fluids
Foam
Footwear
Heat transfer fluids
Insulation
Polymeric gels
Polymer modified asphalt
Roofing compound
Wire & cable

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.

