

Technical Data Sheet

Base Oil 500N

Flexi-Containers / ISO Tanks / Bulk Vessels

Description

N500 Base Oil is a Group II hydrocracked base oil produced through advanced hydroprocessing, which increases the saturated content while effectively removing impurities such as sulfur, nitrogen, and metals. This method produces a cleaner, more stable oil with enhanced performance properties compared to traditional Group I base oils.

N500 offers moderate to strong performance in key lubricating properties such as oxidative stability, volatility, and flash/fire points, making it suitable for a wide range of lubricant formulations. However, its performance is more limited in areas like low-temperature properties, cold crank viscosity, and extreme pressure wear protection.

With a viscosity of approximately 9.8-12.3 cSt at 100°C, N500 is considered less polar, making it ideal for applications requiring high thermal and oxidative stability.

Applications

- Transformer oils
- Ink oils
- Marine oils
- Industrial gear oils
- Automotive transmission fluids
- White oils
- Process oils
- Gear oils
- Axle oils

Specifications

PROPERTY	UNIT	METHOD	SPECIFICATIONS
Color	–	ASTM D 1500	LO.5 MAX
Density at 15°C	g/ml	ASTM D 1298	REPORT
Viscosity at 100°C	cst	ASTM D 445	9.8-12.30
Viscosity at 40°C	cst	ASTM D 445	REPORT
Viscosity Index	–	ASTM D 2270	105 MIN
Flashpoint	°C	ASTM D 92	230 MIN
Pourpoint	°C	ASTM D 97	-9 MAX
Sulfur	PPM	ASTM D 2622	<15
NOACK	wt%	ASTM D5800	-

Safety and Handling Guidelines

This lubricant is formulated with highly refined mineral oils and performance additives. Under normal usage conditions, it poses no significant toxic hazard. However, all lubricants must be handled with care to ensure user safety and environmental protection.

Precautions

- Continuous skin contact can result in irritation—clean the area well after exposure.
- In the event of skin contact, cleanse the area immediately using soap and water.
- Do not dispose used oil into drains, watercourses, or the environment.
- Dispose the used oil at an authorized collection or recycling facility.