

Technical Data Sheet

Base Oil 4cSt

Flexi-Containers / ISO Tanks / Bulk Vessels

Description

Group III 4cSt base oil is widely used in the formulation of high-quality engine oils. It is produced through hydro-skimming of unconverted oil under high pressure, resulting in a product with a high viscosity index, excellent low-temperature flow properties, ultra-low sulfur content, minimal aromatic hydrocarbons, and low volatility.

These base oils undergo the most advanced mineral oil refining processes among all base oil groups. While not chemically synthesized, they exhibit exceptional molecular uniformity, stability, and performance. These attributes lead to Group III 4 cSt base oils being widely used as a base for synthetic or semi-synthetic lubricants, with viscosity of approximately 3.9-4.5 cSt at 100°C.

Applications

- Industrial, hydraulic, and engine oils
- Drill fluids and related agents
- Automotive lubricants
- Functional fluids
- Transformer oils
- Automatic transmission fluids (ATF)

Specifications

PROPERTY	UNIT	METHOD	SPECIFICATIONS
Color	–	ASTM D 1500	0.5 MAX
Density at 15°C	g/ml	ASTM D 1298	REPORT
Viscosity at 100°C	cSt	ASTM D 445	3.9-4.5
Viscosity at 40°C	cSt	ASTM D 445	REPORT
Viscosity Index	–	ASTM D 2270	121 MIN
Flashpoint	°C	ASTM D 92	200 MIN
Pourpoint	°C	ASTM D 97	-12 MAX
Sulfur	PPM	ASTM D 2622	<3
NOACK	wt%	ASTM D5800-B	15 MAX

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.

- 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.