

Technical Data Sheet

Base Oil 2cSt

Flexi-Containers / ISO Tanks / Bulk Vessels

Description

Virgin **Base Oil 2cSt**, a Group III base oil, is derived through advanced hydrocracking and Iso-dewaxing processes for exceptional purity and performance. This method yields a product with extremely low levels of sulfur and aromatic compounds, resulting in a clean, highly saturated oil with superior performance characteristics. With a viscosity of approximately 1.9-2.3 cSt at 100°C, Group III base oils are often labeled as partly synthetic or even synthetic in some regions, despite being derived purely from refined mineral sources. They do not contain chemically synthesized components, but their performance rivals that of full synthetics. Due to their low aromatic content, these oils exhibit limited additive solubility but offer excellent molecular uniformity, high thermal and oxidative stability, and very low electrical conductivity (typically under 10 pS/m), indicating a non-polar character.

Applications

- Textile oils and cutting fluids
- Lubricant formulations for turbines
- Engine oils and hydraulic fluids
- Heat pumps and heat exchangers
- Blending component to enhance the viscosity index of other base oils
- Additive in various industrial and automotive lubricants
- Base stock for motor oils
- Modern industrial lubricants

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	1.9-2.3
Viscosity at 40°C	cSt	ASTM D 445	REPORT
Viscosity Index	–	ASTM D 2270	100 MIN
Flashpoint	°C	ASTM D 92	150 MIN
Pourpoint	°C	ASTM D 97	-25 MAX
Sulfur	PPM	ASTM D 129	10 MAX
NOACK	wt%	ASTM D5800-B	–

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.