

Technical Data Sheet

Base Oil 6cSt

Flexi-Containers / ISO Tanks / Bulk Vessels

Description

Virgin **Base Oil 6cSt** is a high-performance Group III hydrocracked base oil distinguished by its outstanding oxidation stability, low sulfur content, high viscosity index (above 120), and superior low-temperature fluidity. The "6 cSt" refers to the oil's kinematic viscosity measured in centistokes (cSt) at elevated temperatures, indicating how easily the oil flows—the higher the cSt, the thicker the oil.

This base oil is produced using an advanced Iso-dewaxing process, which significantly reduces sulfur and aromatic compounds. Although often marketed as partly synthetic or synthetic lubricants in some regions, these oils contain no chemically synthesized components and have over 90% saturates. It has a viscosity of approximately 5.8-6.2 cSt at 100°C.

Because of their low aromatic content, Group III base oils have limited additive solubility but offer superior molecular uniformity, stability, and very low electrical conductivity (under 10 pS/m), reflecting their near non-polar nature. These attributes make them well-suited as base stocks for engine oils and advanced industrial lubricants. They are commonly blended with additives and sold as synthetic or semi-synthetic products.

Applications

- Utilized in premium engine oils, transmission fluids, and select industrial oils requiring superior stability, low viscosity, and minimal volatility.
- Commonly employed as a trimming base oil to help finished lubricants achieve targeted low viscosity and volatility specifications.

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	5.8-6.2
Viscosity at 40°C	cSt	ASTM D 445	REPORT
Viscosity Index	–	ASTM D 2270	120 MIN
Flashpoint	°C	ASTM D 92	220 MIN
Pourpoint	°C	ASTM D 97	-15 MAX
Sulfur	PPM	ASTM D 2622	MAX 10
NOACK	wt%	ASTM D5800-B	8 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.