



ETRO 4

High Quality Group III Base Oil

ETRO 4 is a high quality Group III base oil, manufactured from a unique feedstock by using a proprietary hydrotreatment - and wax isomerization process and hydrofinished to a colourless liquid. The base oil is highly isoparaffinic and exhibits a very high viscosity index as well as superior low-temperature performance. It has an excellent viscosity-volatility relationship.

Applications

ETRO 4 is an excellent choice for formulating high-performance, low-viscosity engine oils due to its high viscosity index and low volatility. This base oil is also suitable for application in industrial equipment, such as compressors, hydraulic systems, gears and turbines.

Features and Benefits

- Very high viscosity index
- Excellent volatility for low-viscosity engine oils
- Superior low-temperature performance
- Good oxidation stability

Formulation Support

ETRO 4 is supported with top-tier engine oil formulations that meet the requirements for:

- API SN
- ILSAC GF-5
- ACEA 2012*
- OEM Specifications

Properties **

Properties	Test Methods	Units	Specification Value	Typical Value
Appearance	Visual		Bright & Clear	Bright & Clear
Density	ASTM D 1298/D 4052	kg/L	-	0.8348
Colour	ASTM D 1500		L 0.5 Max	L 0.5
Viscosity @ 100 °C	ASTM D 445	mm ² /s	4.15 - 4.35	4.22
Viscosity Index	ASTM D 2270		≥ 127	129
Pour Point	ASTM D 97 / D 5950	°C	≤ -15	-18
Flash Point	ASTM D 92	°C	≥ 200	220
Evaporation Loss - Noack	ASTM D 5800-B	mass %	≤ 15.0	13.8
Saturates	IP 368 / ASTM D 7419	mass %	> 95	> 99
Sulphur Content	ASTM D 2622/D 4294	mg/kg	≤ 30	4
CCS Viscosity @ -30 °C	ASTM D 5293	mPa.s	-	1,390

* To be upgraded to ACEA 2016

** All technical data is provided for reference only.