



M500

High Quality Group II+ Base Oil

M500 is a high-quality Group II+ base oil, manufactured from a proprietary hydro-treatment and wax isomerization process and hydrofinished to a colourless liquid. The base oil is highly isoparaffinic and exhibits a high viscosity index with an excellent viscosity-volatility relationship.

Applications

M500 is a preferred choice for formulating higher viscosity grades engine oils due to its high Group II+ 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

- High viscosity index
- Low volatility
- Superior low-temperature performance
- Good oxidation stability

Properties

Properties	Test Methods	Units	Specification Value	Typical Value
Appearance	Visual		Bright & Clear	Bright & Clear
Colour	ASTM D 1500		L 0.5 Max	L 0.5
Density @ 15 °C	ASTM D 1298 / D 4052	kg/L	Report	0.8642
Viscosity @ 40 °C	ASTM D 445	mm ² /s	Report	79.40
Viscosity @ 100 °C	ASTM D 445	mm ² /s	9.80 – 12.30	10.50
Viscosity Index	ASTM D 2270		≥ 105	116
Pour Point	ASTM D 97 / D 5950	°C	≤ -9	-15
Flash Point	ASTM D 92	°C	≥ 230	260
Saturates Content	IP 368 / ASTM D 7419	mass %	Report	99
Sulphur Content	ASTM D 2622 / D 5453	mg/kg	≤ 15	6

Product Data Sheet



PETRONAS

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