

## Product

PETRONAS superior quality group III base oils are marketed under the ETRO brand name. The combination of over 130 VI and low noack makes ETRO one of the highest quality group III base oils in the market. Given that ETRO is produced exclusively from PETRONAS crude, both feedstock supply and product consistency are assured.

Moreover, sales and delivery to worldwide destinations are streamlined by direct distribution through the end-to-end supply chain network of PETRONAS Base Oil (M) Sdn Bhd while PETRONAS Marketing Netherlands B.V. was established especially to cater for the European market.

This, combined with the company's industry-leading technical and logistics capabilities further assures a reliable supply source.

### PRODUCT DESCRIPTION

ETRO 4 and ETRO 6 are very high quality Group III base oils manufactured from a proprietary wax isomerisation process and hydrofinished to a colourless liquid. These base oils are highly isoparaffinic and exhibit high viscosity index values, as well as superior low temperature performance. Both have excellent viscosity-volatility relationship.

### ETRO SPECIFICATIONS

KEY PARAMETERS	TEST METHODS	TYPICAL VALUES	
		ETRO 4	ETRO 6
Kinematic Viscosity @ 100°C, cSt	ASTM D 445	4.26	6.10
Viscosity Index	ASTM D 2270	130	133
Pour Point, °C	ASTM D 97	-18	-18
Flash Point, °C	ASTM D 92	220	230
Noack volatility, wt %	ASTM D 5800 (B)	15	7
Saturates, %	IP 368	99	99
Sulphur, ppm	ASTM D 2622	5	5
CCS Viscosity, cP			
at -25°C	ASTM D 5293	880	2100
at -30°C	ASTM D 5293	1400	4000
at -35°C	ASTM D 5293	2400	7400