

Shell XHVI 4.0

Extra high viscosity index base oil



Shell XHVI (Extra High Viscosity Index) base oils are special products from the Shell XHVI synthesis process. With the VI above 120 they are classified as API/ATIEL Group III type base oil. XHVI base oils are favourable blending components for high quality speciality lubricants in the automotive and industrial sector, where excellent viscosity-temperature behaviour and low volatility are required.

Typical Physical Characteristics

		XHVI 4.0	XHVI 4.0 Specification
Appearance		bright&clear	bright&clear
Colour (ASTM)	ASTM D 1500	L0.5	max 1.0
Density at 15 °C	kg/m ³ ASTM D 1298	819	
Flashpoint PMCC	°C ASTM D 93	215	min 210
Flashpoint COC	°C ASTM D 92	220	
Pour Point	°C ASTM D 97	-18	max -18
Kinematic Viscosity at 40 °C	mm ² /s ASTM D 445	17	
Kinematic Viscosity at 100 °C	mm ² /s ASTM D 445	4.0	3.8 - 4.2
Viscosity Index	ASTM D 2270	141	min 140
Acid Value	mgKOH/g ASTM D 974	<0.03	max 0.05
Ash	%m ASTM D 482	<0.01	
Sulphur Content	%m/m ASTM D 2622	<0.03	
Noack Volatility	%m ASTM D 5800	15	max 15-17 (*)

(*) sliding scale specification depending on viscosity

max. 17 %m for viscosities of 3.80-3.99 mm²/s at 100 °C

max. 16 %m for viscosities of 4.00-4.09 mm²/s at 100 °C

max. 15 %m for viscosities of 4.10-4.20 mm²/s at 100 °C

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.