

Shell HVI 650

Paraffinic high viscosity index base oil



Shell HVI base oils are a range of paraffinic base oils with good oxidation stability and high viscosity/temperature behaviour. They are classified as Group I basestock slate within the API/ATIEL Guidelines for the formulation of automotive lubricants. Shell HVI (high viscosity index) base oils are widely used as blending components in a variety of industrial and automotive lubricants and functional fluids.

Typical Physical Characteristics

		HVI 650	HVI 650 Specification
Appearance		bright&clear	bright&clear
Colour (ASTM)	ASTM D 1500	5.0	max 5.5
Density at 15 °C	kg/m ³ ASTM D 1298	905	
Flashpoint PMCC	°C ASTM D 93	280	min 267
Flashpoint COC	°C ASTM D 92	290	
Pour Point	°C ASTM D 97	-6	max -6
Kinematic Viscosity at 40 °C	mm ² /s ASTM D 445	500	
Kinematic Viscosity at 100 °C	mm ² /s ASTM D 445	32	30.5 - 34.2
Viscosity Index	ASTM D 2270	> 95	min 95
Acid Value	mgKOH/g ASTM D 974	< 0.03	max 0.05
Ash	%m ASTM D 482	< 0.01	
Noack Volatility	%m ASTM D 5800	0.5	

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