

# Shell HVI 65

## 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 65	HVI 65 Specification
Appearance		bright&clear	bright&clear
Colour (ASTM)	ASTM D 1500	1.0	max 2.0
Density at 15 °C	kg/m <sup>3</sup> ASTM D 1298	867	
Flashpoint PMCC	°C ASTM D 93	210	min 204
Flashpoint COC	°C ASTM D 92	220	
Pour Point	°C ASTM D 97	-15	max -9
Kinematic Viscosity at 40°C	mm <sup>2</sup> /s ASTM D 445	30	
Kinematic Viscosity at 100°C	mm <sup>2</sup> /s ASTM D 445	5.2	4.9 - 5.7
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	16	max 16-18 % (**)

(\*\*) sliding scale specification depending on viscosity

max. 18 %m for viscosities of 4.90-4.99 mm<sup>2</sup>/s at 100°C

max. 17 %m for viscosities of 5.00-5.19 mm<sup>2</sup>/s at 100°C

max. 16 %m for viscosities of 5.20-5.40 mm<sup>2</sup>/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.