

INA Hipenol SHD 75W-90

General Description - Application

INA Hipenol SHD 75W-90 is the high quality fully synthetic transmission fluid specially formulated to meet stringent specifications of reputable OEM such as MAN, Mercedes Benz, VOLVO and ZF containing selected base oils and EP additives. Suitable as Total Driveline lubricant for use in both heavily loaded rear axles and commercial vehicle manual transmissions. Recommended for lubrication in gearboxes of low-floor trams.

INA Hipenol SHD 75W-90 has outstanding low temperature properties, high thermal and oxidation stability and optimized shear stability which guarantee operations through wide temperature conditions and extended change intervals.

Performance Level - Specifications

SAE 75W-90
 API GL-4 and GL-5
 API MT-1
 SAE J2360 (former MIL-PRF-2105E)
 ZF TE-ML 02B, 05B, 08, 12B, 16F, 17B, 19C, 21B - Approvals
 MAN M 3343 Typ S - Approval
 MAN 341 Typ E3 - Approval
 Mack GO-J
 Scania STO 1:0

Properties	INA Hipenol SHD 75W-90	Method
Appearance and Colour	clear, yellow oil	visual
Density at 15 °C, g/cm ³	0,868	ASTM D 4052
Kinematic Viscosity, mm ² /s - at 40 °C - at 100 °C	103,7 15,2	ISO 3104
Shear Stability after 100 h - Kinematic Viscosity at 100 °C, mm ² /s	14,7	DIN 51350-6
Viscosity Index	154	ISO 2909
Dinamic Viscosity (Brookfield) at -40 °C, mPas	65 000	ASTM D 2983
Flash Point, °C	210	ISO 2592
Pour Point, °C	- 50	ISO 3016
Corrosion (Cu, 120 °C, 3 h)	1a	ISO 2160

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.