



RORED HDA SAE 90, 140, 75W-90, 80W-90, 85W-90, 85W-140

RORED HDA Series are high performance heavy duty gear oil which formulated from high quality base oils and selected Extreme Pressure additive.

RORED HDA Series adalah pelumas roda gigi tugas berat berkemampuan tinggi yang diformulasikan dari base oil bermutu tinggi dan aditif Extreme Pressure.

TYPICAL CHARACTERISTICS				
Characteristics	Test Method	RORED HDA 90	RORED HDA 140	RORED HDA 75W-90
SAE Viscosity Grade		90	140	75W-90
Density at 15 °C, kg/l	ASTM D - 4052	0.9001	0.9054	0.8970
Kinematic Viscosity at 40 °C, cSt	ASTM D - 445	183.30	412.32	112.00
	ASTM D - 445	17.02	28.45	17.25
Viscosity Index	ASTM D - 2270	98	96	169
	ASTM D - 1500	Green	Green	L 1.0
Flash Point, °C	ASTM D - 92	237	249	180
Pour Point, °C	ASTM D - 5950	-24	-9	-45

TYPICAL CHARACTERISTICS				
Characteristics	Test Method	RORED HDA 80W-90	RORED HDA 85W-90	RORED HDA 85W-140
SAE Viscosity Grade		80W-90	85W-90	85W-140
Density at 15 °C, kg/l	ASTM D - 4052	0.8986	0.9001	0.9053
Kinematic Viscosity at 40 °C, cSt	ASTM D - 445	146.60	210.03	403.84
	ASTM D - 445	14.68	18.83	28.11
Viscosity Index	ASTM D - 2270	99	100	96
	ASTM D - 1500	L 2.5	L 2.5	2.5
Flash Point, °C	ASTM D - 92	205	205	213
Pour Point, °C	ASTM D - 5950	-35	-24	-24

PERFORMANCE LEVELS

RORED HDA Series comply with specification API GL-5, MB 235.0, MIL-L-2105D, Volvo 97310 & 97316, Voith 3.325.339, and MAN 342 M-1

RORED HDA 90 is especially approved with Mercedes Benz 235.0.

APPLICATIONS

RORED HDA Series are recommended for lubrication of heavy duty hypoid gears and spiral bevel gear on final drive of motor vehicles.

TINGKATAN MUTU

RORED HDA Series memenuhi persyaratan kerja dari API GL-5, MB 235.0, MIL-L-2105D, Volvo 97310 & 97316, Voith 3.325.339, and MAN 342 M-1.

RORED HDA 90 telah mendapatkan approval Mercedes Benz 235.0.

PENGGUNAAN

RORED HDA Series digunakan untuk melumasi roda gigi jenis hypoid atau spiral bevel pada gardan dan rumah/kotak kemudi kendaraan bermotor yang mempunyai persyaratan kerja tugas berat.