

RORED HDA Series

AUTOMATIC TRANSMISSION OILS & MANUAL TRANSMISSION OILS

PRODUCT DESCRIPTION

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

PERFORMANCE LEVELS

- ✓ **RORED HAD 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 HAD 90** is especially approved with Mercedes Benz 235.0.

SUPERIORITIES

- ✓ **Optimum Protection and Long Service**
 - Excellent load carrying capability and protect axle/differential or final drive from wear.
 - Maximum protection from corrosion.
 - Extended service capability.

APPLICATIONS

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

TYPICAL CHARACTERISTICS

Characteristics	Test Method	RORED HAD					
		90	140	75W-90	80W-90	85W-90	85W-140
SAE Viscosity Grade		90	140	75W-90	80W-90	85W-90	85W-140
Density @ 15°C, kg/l	ASTM D - 4052	0.9001	0.9054	0.8970	0.8986	0.9001	0.9053
Kinematic Viscosity,							
40°C, cSt	ASTM D - 445	183.30	412.32	112.00	146.60	210.03	403.84
100°C, cSt	ASTM D - 445	17.02	28.45	17.25	14.68	18.83	28.11
Viscosity Index	ASTM D - 2270	98	96	169	99	100	96
Copper Strip Corrosion Test	ASTM D - 130	1B	1B	1A	1A	1A	1A
ASTM Colour	ASTM D - 1500	Green	Green	L 1.0	L 2.5	L 2.5	2.5
Flash Point °C	ASTM D - 92	237	249	180	205	205	213
Pour Point °C	ASTM D - 5950	-24	-9	-45	-35	-24	-24
Total Acid Number, mgKOH/g	ASTM D - 664	1.99	1.79	1.89	1.89	0.32	1.74