

GROB Gear Oil SAE 80W GL-4

Product Description

GROB SAE 80W GL-4 is a high-performance mineral-based manual transmission oil with moderate extreme pressure (EP) characteristics. Formulated with premium base oils and advanced additives, it ensures smooth gear shifting, high wear protection, and extended transmission life. Designed to meet the demands of modern gearboxes, it offers excellent thermal stability, anti-wear properties, and corrosion protection.

Product Features & Benefits

- Smooth Gear Shifting: Outstanding frictional properties for easy gear transitions.
- Extended Transmission Life: Superior anti-wear protection and EP performance.
- Excellent Stability: High thermal and oxidation stability for longer oil life.
- Copper Alloy Protection: Prevents corrosion of components.
- Wide Operating Range: Reliable performance in extreme temperature conditions.

Areas of Application

- Transmissions and final drives operating under high load.
- Synchromesh and non-synchromesh gearboxes, transfer cases, and mechanical steering controls.
- Always follow the vehicle manufacturer's recommendations for service intervals and specifications.

Typical Properties

Property	Method	Units	Value
Density @ 15°C	ASTM D4052	g/ml	0.88 - 0.893
Kinematic Viscosity @ 40°C	ASTM D445	mm ² /s	70 - 93.4
Kinematic Viscosity @ 100°C	ASTM D445	mm ² /s	9.2 - 11.4
Viscosity Index	ASTM D2270	-	101 - 110
Pour Point	ASTM D6892 / ISO 3016	°C	-27 to -33
Flash Point (COC)	ASTM D92	°C	195 - 218
Copper Corrosion (150°C, 3h)	ASTM D130	-	1A

Application

- Suitable for the lubrication of manual synchromesh gearboxes, transfer boxes, and mechanical steering controls.
- Meets the requirements of most transmissions operating under high loads or cold start conditions.
- Recommended for applications where API GL-4 is specified.

Approvals & Specifications

- API GL-4
- MIL-L 2105
- MB Approval 235.1
- ZF TE-ML 02B, 16A, 17A, 19C
- MAN 341 E-1, MAN 341 Z-2
- DTFR 13B100

Storage & Handling

- Store in a cool, dry place away from direct sunlight.
- Avoid contamination with other oils or foreign materials.
- Refer to the Safety Data Sheet (SDS) for health and safety information.

