



**Product Name:** GITRÖL SAE 80W GL-4

**Application:** Oil for manual transmissions and differentials

**API Service:** GL-4

**Viscosity Grade:** SAE 80W

**Quality:** Mineral

**Recommended for:** Manual syndromes gear boxes, transfer boxes and mechanical steering controls

**Drain Interval:** 30,000 to 50,000 Km

## Product Overview

**GITRÖL 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.

## 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

## Performance 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.

## Meets and Approvals

- 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

## Typical Properties

| Property                    | Method     | Unit               | Typical Value |
|-----------------------------|------------|--------------------|---------------|
| Density @ 15°C              | ASTM D4052 | g/ml               | 0.88 - 0.893  |
| Kinematic Viscosity @ 40°C  | ASTM D445  | mm <sup>2</sup> /s | 70 - 93.4     |
| Kinematic Viscosity @ 100°C | ASTM D445  | mm <sup>2</sup> /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         |

## Storage and Handling

- Store in a cool, dry place away from direct sunlight and temperatures above 60°C.
- Ensure containers are sealed to prevent contamination.
- Avoid mixing with other oils to maintain full performance

