



Product Name: GITRÖL SAE 80W-90 GL-4

Application: Oil for manual transmissions and differentials

API Service: GL-4

Viscosity Grade: SAE 80W-90

Quality: Mineral

Recommended for: Manual transmissions of passenger cars, trucks, buses, construction equipment, and agricultural machinery requiring SAE 80W-90 API GL-4 lubricants.

Drain Interval: 40,000 to 80,000 Km

Product Overview

GITRÖL SAE 80W-90 GL-4 is a universal, all-season, mineral-based hypoid gear oil designed for synchronized and non-synchronized manual transmissions, drive axles, and other components operating under heavy and sustained loads. This gear oil ensures optimal performance and reliability across a wide range of operating conditions and ambient temperatures

Application

- Specifically developed for manual transmissions, auxiliary and differential transmissions without limited-slip differentials.
- Ideal for commercial vehicles, passenger cars, and off-road machinery.
- Compatible with all branded gear oils, though full performance is achieved when used unmixed.

Performance Benefits

- **High Performance:** Superior antifriction and anti-scuffing properties enhance fuel economy and provide smooth gear shifting.
- **Wear Protection:** Outstanding antiwear and anti-scuffing capabilities extend equipment lifespan, even in extreme operating conditions.
- **Low-Temperature Reliability:** Delivers reliable lubrication and easy starts at temperatures as low as -30°C.
- **Thermal and Oxidation Stability:** Increased resistance to thermal degradation allows extended oil change intervals, reducing maintenance costs.
- **Corrosion Resistance:** Advanced inhibitors protect metal components from rust and corrosion.
- **Seal Compatibility:** Prevents swelling, shrinking, and hardening of seals, reducing leakage and extending service life.
- **Noise Reduction:** Effectively minimizes noise and vibration in transmissions.
- **Universal Application:** Suitable for passenger cars, commercial vehicles, off-road machinery, and other equipment requiring API GL-4 specifications.

Meets and Approvals

Meets:

- API GL-4





- MIL-L 2105 D/E

Approvals:

- MAN 341 Typ E2/Z2
- MAN 342 Typ M2
- ZF TE-ML 02B/05A/12L/12M/16B/17H/19B/21A
- ZF001323
- MB 235.0
- Scania STO 1:0
- Volvo 97310

Typical Properties

Property	Unit	Method	Typical Value
Density @ 15°C	g/cm ³	0.90	DIN 51757
Viscosity @ 40°C	mm ² /s	142	ASTM D7042-04
Viscosity @ 100°C	mm ² /s	14.8	ASTM D7042-04
Viscosity Index		104	DIN ISO 2909
Brookfield Viscosity @ -26°C	mPa·s	≤150,000	ASTM D2983-09
Pour Point	°C	-27	DIN ISO 3016
Flash Point	°C	200	DIN ISO 2592
Color (ASTM)		L3.5	DIN ISO 2049

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

