

Technical Data Sheet (TDS)

Product Name:

RIDA Gear Oil API GL-5 80W90

Key Features

- ✓ **Anti-wear protection** – Reduces gear wear and extends component life
- ✓ **Oxidation resistance** – Prevents sludge and deposit formation
- ✓ **Exceptional shear stability** – Maintains viscosity under heavy loads
- ✓ **Enhanced friction reduction properties** – Reduces energy loss and improves efficiency

Product Overview

RIDA Gear Oil API GL-5 Series is a **high-performance multi-purpose extreme pressure (EP) gear lubricant** formulated using premium base oils and advanced additive technology. It is engineered for use in **manual transmissions, axles, and final drives** subjected to **extreme pressures and shock loads** where **API GL-5 and MT-1** service is required.

It provides outstanding performance in:

- ✓ **Heavy-duty manual transmissions**
- ✓ **Automotive differentials and hypoid gears**
- ✓ **Off-road, construction, and mining equipment**
- ✓ **Agricultural machinery and industrial applications**

Designed to Perform

Oxidation Resistance – Longer Maintenance Intervals

- Prevents sludge buildup and oil degradation under high operating temperatures
- Extends oil change intervals, reducing maintenance costs

Anti-Wear, Anti-Corrosion & Anti-Rust Protection

- Forms a protective film on metal surfaces to **prevent rust and corrosion**
- Minimizes wear on critical drivetrain components, ensuring **longer equipment life**

Antifoam – Enhanced Lubrication Efficiency

- Prevents foaming, ensuring continuous and effective gear lubrication
- Reduces air entrapment, preventing overheating and oxidation

Exceptional Shear Stability – Maintains Viscosity Under Load

- Provides consistent lubrication under heavy loads and extreme pressures
- Prevents viscosity breakdown, ensuring **smooth gear operation**

Performance Characteristics

RIDA Gear Oil API GL-5 Series is designed to withstand **high-speed/shock load, high-speed/low torque, and low-speed/high torque** conditions, ensuring maximum drivetrain protection.

It meets or exceeds the **rigorous performance demands** of modern heavy-duty equipment, making it ideal for **commercial fleets, off-highway equipment, and industrial gear systems**.

Industry Standards & Approvals

This product meets the requirements of:

- ✓ API GL-5
 - ✓ MIL-L-2105 B, C, D
 - ✓ Mercedes-Benz MB 235
 - ✓ Ford M2C-9002 AA
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Typical Physical Characteristics

Property	Units	Test Method	SAE 80W-90
Kinematic Viscosity	@ 40°C (cSt)	ASTM D445	184
Kinematic Viscosity	@ 100°C (cSt)	ASTM D445	17
Viscosity Index	-	ASTM D2270	98
Flash Point (COC)	°C	ASTM D92	≥ 240
Pour Point	°C	ASTM D97	-24
Density	@ 15°C (kg/l)	ASTM 4052	0.88

These characteristics represent typical production values. Future product specifications may vary.

Health, Safety & Environmental Protection

✓ Health & Safety

- This product **does not** present any significant health or safety hazard when used as recommended
- Avoid prolonged **skin and eye contact**; wash thoroughly with soap and water after handling
- Use **impervious gloves** when handling used oil
- Refer to the **Material Safety Data Sheet (MSDS)** at www.ridalubs.ae for complete safety details

✓ Environmental Protection

- ♻️ **Dispose of used oil responsibly at an authorized collection point**
 - ❌ **Do not discharge oil into drains, soil, or water**
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Additional Information

For technical support or specific application advice, contact your **Rida Lubricants Representative**.

Rida Lubricants LLC

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