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Product Data Sheet (PDS)



GP SYCROGEN MTF Gear & Differential 80w90 GL-5 Limited Slip

Published By: Quality

Control Department of
General Petroleum GmbH,
Germany

Last Update Date:

5/1/2025

GP Syncrogen MTF 80w90 GL5 LS



GP Syncrogen MTF 80W90 GL5 LS is a high-performance gear and differential oil formulated to meet the demanding requirements of modern transmissions, differentials, and axle systems—especially those equipped with **Limited Slip (LS) differentials**. Blended with premium base oils and advanced Extreme Pressure (EP) additives, this oil meets the **API GL-5** specification and delivers outstanding protection under high-load and high-temperature conditions.

Key Features:

- **Limited Slip Technology:** Contains friction modifiers to ensure smooth operation of limited slip differentials without chatter or wear.
- **Outstanding Wear Protection:** Protects gears, bearings, and synchronizers from wear, scuffing, and pitting, even under shock-loading.
- **Thermal & Oxidation Stability:** Resists oil degradation and maintains performance in extreme temperatures, prolonging oil life.
- **Excellent Shear Stability:** Maintains optimal viscosity for consistent performance throughout the oil's service life.
- **Multi-Vehicle Compatibility:** Suitable for a wide range of passenger cars, SUVs, light and heavy-duty commercial vehicles, and off-road equipment.

Applications:

- Manual transmissions, hypoid differentials, final drives, and axle assemblies requiring API GL-5 oils
- Vehicles equipped with limited slip differentials (check OEM specifications)
- Suitable for use in environments with high torque loads, severe driving conditions, or extended drain intervals

PERFORMANCE STANDARDS:

Syncrogen 80w90 GL5 LS meets and exceeds the requirements of the following specifications:

- API MT-1
- API GL-5 / GL-4
- MIL-L-2105D
- MIL-PRF-2105E
- MACK GO-J
- SAE J2360
- PG-2 Limited Slip
- US Steel 224
- AGMA 9005-D94
- Cincinnati Milacron
- Clean Panel Coker
- S-200 Oxidation Tubes
- Arvin Meritor 0-76-D
- Arvin Meritor 0-76-P, Q, R
- David Brown S1.53.101(E)
- DIN 51517 PART 3
- Eaton
- Ford WSP-M2C197-A
- GM LS2
- ISO 12925-1 CKC/CKD
- Mack GO-G, J
- MB 235.0, 235.5, 235.6, 235.8
- PG-2 Limited Slip
- NATO O-226
- U.S. Steel 224
- Voith Turbo 132.00374401/2
- ZF TE-ML-07A, 05C,D, 12C,D, 16E, 16G

TECHNICAL DATA

Sr. No	Characteristics	Test Method	Results
01	Appearance	Visual	Bright & Clear
02	Color	ASTM D1500	L3.5
03	Density @ 15.0°C, g/ml	ASTM D4052	0.884
04	KV@40C	ASTM D445	143.1
05	KV@100C	ASTM D445	14.96
06	Viscosity Index	ASTM D2270	105
07	Brookfield Viscosity	ASTM D2983	120,000
08	Flash Point, C	ASTM D92	240
09	Pour Point, C	ASTM D97	-15

Health and Safety:

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application, following the recommendations provided in the Material Safety Data Sheet (MSDS). MSDSs are available upon request. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly.

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