



Mobil™ Synthetic HSR Gear Oil 75W-80

Mobil Commercial Vehicle Lube , 中国

Advanced Fully Synthetic Railway Gearbox Lubricant

Product Description

Mobil™ Synthetic HSR Gear Oil 75W-80 is a fully synthetic, high performance gear lubricant formulated from advanced synthetic base oils and the latest technology additive system. This lubricant is engineered for use in many railway gearboxes, especially high speed rail transmission gearboxes where operations require gear lubricants with exceptional thermal stability and resistance to high temperature oxidation, excellent load-carrying capability over wide operating temperatures where extreme pressures and shock loading are expected and long oil drain interval. Mobil™ Synthetic HSR Gear Oil 75W-80 has excellent thermal and oxidation stability, high inherent Viscosity Index (VI), extremely low pour point, and outstanding low temperature fluidity.

The state-of-the-art technology behind Mobil™ Synthetic HSR Gear Oil 75W-80 delivers outstanding viscosity-temperature properties necessary for wide temperature range applications, optimized protection against thermal degradation and oxidation, wear and corrosion, shear stability, extended service capability, and potential energy saving.

Features and Benefits

Railway gearbox designs have changed and increased the requirements of fluids to deliver higher performance including potentially increased productivity and reduced operating costs, especially in high speed rail applications. Mobil™ Synthetic HSR Gear Oil 75W-80 is engineered to deliver exceptional performance and contribute to lower total lubrication-related operating costs. The key potential benefits include:

Features	Advantages and Potential Benefits
Exceptional thermal stability and resistance to high temperature oxidation	Long gear and bearing life due to minimal deposits. Long seal life.
Outstanding protection against low speed/high torque wear, spalling, and against high speed scoring.	Increased load-carrying capability. Reduced maintenance costs and long equipment life.
Enhanced frictional properties	Helps to reduce operating costs
Excellent rust, staining, and corrosion protection of copper and its alloys	Improved system metallurgy compatibility and long component life
Outstanding low temperature fluidity versus mineral oils	Reduced wear and ease of start up, even in arctic conditions
Good resistance to foaming	Maintains film strength for reliable lubrication
Inherent excellent shear stability	Retains viscosity and film strength under severe operating conditions to prevent wear

Applications

Recommended by ExxonMobil for use in:

- Railway gearboxes, especially high speed rail transmission gearboxes
- Not recommended for applications requiring API GL-4 Level performance

Please verify OEM requirements and oil selection criteria for your specific railway gearbox and application.

Specifications and Approvals

This product meets or exceeds the requirements of:

API GL-5

Properties and Specifications

Property	
Grade	SAE 75W-80
Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445	8.9
Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445	47.9
Density @ 15 C, kg/l, ASTM D4052	0.847
Brookfield Viscosity @ -40 C, mPa.s, ASTM D2983	12000

Health and safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.aspx>

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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