



SYNGEAR M 75W/90 MB235.20

PRODUCT DESCRIPTION

Hi-Tec SYNGEAR M 75W/90 MB235.20 is a full synthetic gear oil specially designed to meet the Mercedes Benz axle specification MB 235.20 with extended long drain performance of up to 500,000 km. It is particularly suitable for commercial vehicle axles where enhanced load carrying, improved fuel economy, and thermal stability is required. It is also recommended for the lubrication of differentials, final drives, manual transmissions, transfer cases and other gear applications.

Hi-Tec SYNGEAR M 75W/90 MB235.20 offers outstanding high temperature and high load performance properties combined with excellent low temperature fluidity and cold flow properties, excellent corrosion protection and superior seal compatibility.

Hi-Tec SYNGEAR M 75W/90 MB235.20 has outstanding viscosity/temperature properties, even after high mechanical shearing encountered in hypoid and other severe automotive gear applications.

BENEFITS

- **ANTI-WEAR CAPABILITIES.** Protects components against wear under normal loads.
- **EXTREME PRESSURE CAPABILITIES.** Protects components from failure under shock and high loads.
- **SPALLING PROTECTION.** Provides axle gear sets with metal fatigue protection.
- **THERMAL DURABILITY.** Prevents gear spalling at high temperatures and loads.
- **SHEAR STABILITY.** Shear-stable viscosity modifiers used to ensure this wide span multigrade oil 'stays in grade'.
- **PREVENTION OF OIL LEAKAGE.** Oil seal compatibility helps to keep the oil in the axle and maintain lubrication.
- **OXIDATION AND THERMAL STABILITY.** Prevents oil thickening and deposit formation, resulting in better component protection.
- **ANTI-FOAM CHARACTERISTICS.** Prevents breakdown of and maintains the protective oil film, enabling constant lubrication of components.
- **RUST AND CORROSION PREVENTION.** Protects system parts from water

Hi-Tec SYNGEAR M 75W/90 MB235.20 is recommended for the lubrication of axles, differentials, final drives, manual transmissions, transfer cases and other gear applications where long drain, heavy duty performance is required, such as in Mercedes Benz, MAN and Scania vehicles and those using Arvin Meritor and ZF equipment.

SPECIFICATIONS

Hi-Tec SYNGEAR M 75W/90 MB235.20 meets or exceeds the following demanding performance requirements:

API GL-5
MT-1
MIL-PRF-2105E
SAEJ2360
Arvin Meritor (axles)
MB 235.0, 235.6
Scania STO 1:0
ZF TE-ML 05B, 07A, 08, 12B, 16F, 17B, 19C, 21A, 21B

Hi-Tec SYNGEAR M 75W/90 MB235.20 surpasses MAN 342 S-1 performance levels in dynamic seals and pitting requirements.

Always consult your vehicle owner's manual for the manufacturer's recommendations.

TYPICAL PROPERTIES

Property	ASTM Method	Results
SAE	-	75W/90
Appearance	Visual	Red
Density (kg/Lt) @ 15°C	D-1298	0.874
Viscosity (cSt) @ 40°C	D-445	125
@ 100°C	D-445	16.3
Viscosity Index	D-2270	140
Flash Point; PM Closed (°C)	D-93	220
Pour Point (°C)	D-97	-40
Copper Strip Corrosion 3 hours at 100°C	D-130	1b
Foam Formation (10 mins settling) Sequence I, II, III	D-892	Nil
Phosphorus (% wt)	ICP	0.20
Nitrogen (% wt)	Kjeldahl	0.09
Boron (% wt)	ICP	0.02