

CUPRUM

CUPRUM GEAR OIL 80W90

Semi-Synthetic Oil for All Types of Mechanical Transmissions
API GL-5

This synthetic lubricant is an eco-friendly solution formulated by incorporating our proprietary copper filming technology, developed for use in any heavy duty or high-performance transmission.

The additive package in CUPRUM oil features ionic copper, which imparts exceptional anti-friction, anti-wear, and anti-scuffing characteristics. These properties contribute to a substantial extension in the service life of loaded components and overall transmission unit. The exceptional properties in this 80W90 oil make it capable of partially restoring metal friction surfaces.

Application

It is recommended for all types of transmission unit of passenger vehicles, as well as transmissions of heavy-duty vehicles and equipment (on-road, construction, mining, agricultural) where the level of operational properties of GL-4 or GL-5 is required. These transmission units can contain cylindrical, conical, spiral-conical, and hypoid gears.

Advantages and Potential Benefits

- **Energy-saving and anti-friction** properties significantly reduce fuel consumption;
- Exceptional anti-wear properties and extreme pressure **extend the engine's service life**, operating in extreme conditions and in wide temperature interval;
- **Reduces friction losses to a minimum**, providing a significant increase in engine power and torque;
- Ensures **smooth gear shifting**;
- Has increased resistance of the oil film to high pressures;
- Reduces the **noise level**;
- Prevents differential jamming and reduces finger wear;
- High **thermal-oxidative stability** and resistance to thermal degradation and aging;
- Has **excellent cleaning properties**, effectively protects against varnish and clogging of the synchronizer ring;
- **Protects** metal parts made of ferrous and non-ferrous metals and alloys **from corrosion**;
- Compatible with any sealing materials, prevents their swelling, hardening and shrinkage.

Specification and Approvals

Cuprum 80W90 is recommended for use in vehicles where oil of the following specifications is required:

API GL-5



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Physical and Chemical Parameters

Parameter	Method	Permissible change range	Normal value*
Density at 15°C, Kg/liter	ASTM D 4052	Not standardized	0,891
Kinematic Viscosity at 100°C, cSt	ASTM D 445	13,50-18,50	16,17
Viscosity Index	ASTM D 2270	Not less than 90	103
Brookfield Viscosity at -26°C, cP	ASTM D 2983	Not more than 150,000	10351
Flash Point, °C	ASTM D 92	Not below than 165	228
Pour Point, °C	ASTM D 97	Not standardized	-27

Packaging:

Barrel 200 L | Can 1 L | Tube 125 ml

Features of use



Preparation of the engine is mandatory when switching to CUPRUM oil. **It is recommended that you clean your engine with CUPRUM DETERGENT.** Before switching to this oil, it is recommended to consult with a company representative.

Quality assurance

At CUPRUM, we take quality control very seriously. Every batch of our products undergoes laboratory testing in an accredited facility to ensure they meet our strict technical specifications. This ensures that our customers receive high-quality products that meet their needs and provide reliable performance.

*The typical physicochemical characteristics provided are for reference only and are not necessarily technical specifications for production and sale. The information is for reference only. This version of the product technical description supersedes previous versions and is subject to change without notice. Detailed specifications are available upon request at info@cuprum.co.id

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