

# GRAVIS MP SERIES

## High Quality Industrial Gear Oil

### Description

Lead-free, enclosed gear system oil that provides protection against scratching under severe loading, micro-pitting and tooth breakage. It successfully passed FLENDER's two-year oxidation resistance performance tests for 10,000 hours under 80 °C.

### Applications

It is recommended to use in applications that require Flender AG specifications to provide resistance against scratching of the surfaces of the mating gears during the slipping-rolling motion, micro-pitting and cracking. It can be used in all kind of gearbox designs, including worm gear sets.

### Benefits

- Prevents scratching, micro-pitting and tooth breakage on the gear.
- It meets min 12 in FZG spur gear testing and min 70 lb Timken load value.
- Prevents formation of sludge and deposit, keeps the systems clean.
- Provides protection due to high film resistance.
- Features high degree of oxidation stability ensures long service life.
- Reduces the maintenance costs, promotes the operation efficiency.
- Protects the system against rust and corrosion.
- Used in all kinds of gear system due to their wide range of viscosity.
- Reduces wear during cold start.
- Suits wide range of packing materials.
- Provides highest protection in the presence of water.
- Features high performance in marine applications and the corrosive environment.

### Performance

DIN 51517 Part 3, AIST 224, AGMA 9005-E02, SEB 181226, David Brown S1.53.101 E, FLENDER Revision 15 (approval)

### Typical Specifications\*

ISO Viscosity Grade		150	220	320	460
Density, @ 15 °C, kg/m <sup>3</sup>	ASTM D 4052	0,896	0,898	0,901	0,902
Flash Point COC, °C	ASTM D 92	260	270	282	290
Viscosity, 40 °C, mm <sup>2</sup> /s	ASTM D 445	150	220	320	460
Viscosity, 100 °C, mm <sup>2</sup> /s		14,65	18,9	23,9	30,1
Viscosity Index	ASTM D 2270	96	96	95	94
Pour Point, °C	ASTM D 97	-21	-18	-12	-9

\* Values shown may differ between productions.



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