



# Finnexx Marcelo Oils

## Autogear GL5 EP Multigrade

### **PRODUCT DESCRIPTION**

Finnexx Marcelo Autogear GL5 EP is a range of automotive gear lubricants suitable for API GL-5 and MT-1 applications. They are formulated with mineral base oils and a high performance EP additive system. Finnexx Marcelo Autogear GL5 EP Range is available in the viscosity grades SAE 80W-90, 85W-140, 90 and 140. (See associated Data Sheet for Monogrades)

### **CUSTOMER BENEFITS**

- Enhanced low-temperature fluidity, allowing fast circulation during cold weather start-up
- Excellent shear stability, ensuring that the viscosity is retained throughout the fluid lifetime
- Excellent EP protection, protecting components against scuffing, pitting, scoring, spalling and wear
- Mild-EP additive is non-corrosive towards sensitive copper alloy components
- Excellent rust protection
- Excellent oxidation stability prevents oil from thickening during service, and keeps gear cases, bearings and seals clean and free from harmful deposits
- Compatible with a wide variety of elastomer materials, preventing loss of fluid due to seal deterioration
- Good resistance to foaming

### **APPLICATIONS**

Finnexx Marcelo Autogear GL5 EP is designed for use in automotive hypoid drive axles, steering systems, heavy-duty non-synchronized transmissions and transaxles which require a fluid with API GL-5 or MT-1 performance.

The Finnexx Marcelo Autogear GL5 EP range may be used in final drive axles that require a GL-4 lubricant. However, the friction characteristics of the Finnexx Marcelo Autogear GL5 EP range make them generally unsuitable for use in synchronized manual transmissions and transaxles, and they should not be used in these applications unless a GL-5 fluid is specifically recommended. If a GL-4 lubricant is specified, use Finnexx Marcelo Autogear GL4.

### **PERFORMANCE**

		SAE 80W-90	SAE 85W-140
API	GL-5	Meets requirements	Meets requirements
API	MT-1	Meets requirements	Meets requirements
US Military	MIL-PRF-2105E	Meets requirements	Meets requirements
SAE	J2360	Meets requirements	Meets requirements

Additionally Finnexx Marcelo Autogear GL5 EP meets requirements of most OEMs - DAF, MAN, MACK, Scania and ZF etc.



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### TYPICAL TEST DATA

Characteristic		Test methods	SAE 80W-90	SAE 85W-140
Viscosity, Kinematic, 100°C	mm <sup>2</sup> /s	ASTM D445	15.0	25.5
Viscosity, Kinematic, 40°C	mm <sup>2</sup> /s	ASTM D445	140	344
Viscosity, Brookfield, -12°C	mPa.s	ASTM D2983		80,000
Viscosity, Brookfield, -26°C	mPa.s	ASTM D2983	140,000	
Viscosity Index		ASTM D2270	108	97
Shear Stability 20 hr Vis Kin 100°C after shearing	mm <sup>2</sup> /s	CEC L45A99	14.7	25.4
Pour Point	°C	ASTM D97	-30	-15
Rusting test, Procedure A		ASTM D665A	Pass	Pass
Copper Corrosion, 3 hr, 121°C		ASTM D130	1b	1b
Timken OK load	kg	ASTM D2782	27	27
Foam All Seq	ml	ASTM D892	0	0

**Health & Safety Note** – Always maintain good levels of personal hygiene when handling mineral oils. Wear protective clothing/gloves. Wash hands and skin areas where contact has occurred and avoid ingestion. See applicable Material Safety data Sheet for further information