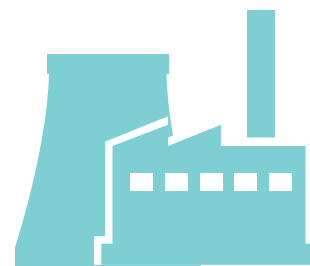


Eni MX 5003

Hydraulic fluids Additive Package



Eni MX 5003 is a high performance hydraulic fluids additive package suitable to formulate Hydraulic lubricants reaching in the meanwhile a "cost-effective" solution.

APPLICATIONS & PROPERTIES

- Eni MX 5003 fulfils the most important OEMs specification requirements when used in Group I and is Denison approved for ISO 46 grade
- Eni MX 5003 covers ISO 3448 grade formulations from 15 to 150.

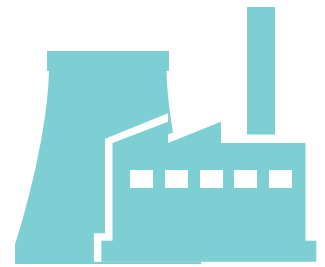
TREAT RATE & PERFORMANCE CLAIMS

Specification	Treat Level	
	0.65%	0.80%
ISO 11158 HM	✓	✓
DIN 51524 -2	✓	✓
BS 4231 HSD	✓	✓
AFNOR NFE 48 603 HM	✓	✓
Flives Cincinnati P68, P69, P70		✓ level
Rexroth RD 90220-01/12.10		✓
Parker Hannifin DENISON	HF-2 level	HF-0 approved for ISO 46 HF-0, 1, 2 level for other grades
FZG A783/90 Load Stage Fail (DIN 51354-2)	stage 11°	stage 12°



Eni MX 5003

Hydraulic fluids Additive Package



TECHNICAL DATA

	Method	Unit	Value	
			min	max
Physical properties				
Appearance			clear liquid	
Density @ 15°C	ASTM D 4052	Kg/m ³	1022	
Kin. Viscosity @ 100°C ¹	ASTM D 445	mm ² /sec	10.3	
Flash Point	ASTM D 93	°C	120	
Chemical properties				
TAN	ASTM D 664	mgKOH/g	63	
Calcium	ASTM D 4951	% m	0.47	0.74
Zinc	ASTM D 4951	% m	3.51	4.73
Phosphorus	ASTM D 4951	% m	3.17	4.27
Nitrogen	ASTM D 5291	% m	0.87	1.28

HANDLING INFORMATION

- **storage:** the maximum handling and unloading temperature is 60°C; it is recommended that for long term storage the temperature should not exceed 50°C.
- **shelf life:** 24 months at ambient temperature and storage in adequate storage conditions (containers kept closed and set upright on pallets with the bungs on top. In case of open-air storage the drums on the top pallet must have a waterproof lid).
- **transport information:** the product is classified as not dangerous as far as naval, rail and road transportation is concerned.
- **safety & regulatory information:** please see safety data sheet in <https://msds.eni.com/AthosSDS/>

PACKAGING

- bulk
- IBC (1000 litres)
- drums (200 litres)

PRODUCTION SITE

Eni Robassomero plant
Via B. Buoizzi 3
10070 Robassomero
Torino Italy



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