

## MARINE LUBRICANTS

# CEPSA MISTRAL HX

### DESCRIPTION

A range of latest-generation lubricating oils with a high viscosity index, formulated with highly refined paraffin bases and selected additives providing excellent anti-wear properties and special characteristics dealing with thermal decomposition and oxidation.

It includes a Viscosity Index Enhancer that is highly stable to shear and compatible with the filters of modern hydraulic systems.

#### PRODUCT APPLICATION

- Especially recommended in hydraulic circuits of demanding marine equipment where HVLP type hydraulic fluids that have special antioxidant characteristics and excellent resistance to temperature changes are required.
- Specifically suitable for circuit applications that contain servo valves.
- It is recommended for systems with wide temperature variations due to its high Viscosity Index and shear stability.
- It is suitable for hydrostatic systems with maximum pressure and temperature requirements thanks to its excellent characteristics.

#### PRODUCT PERFORMANCE

- Great demulsibility power. Rapid water separation.
- Good resistance against foam formation. Rapid venting.
- High anti-wear capacity.
- High hydrolytic stability against contamination due to ambient humidity or humidity from cooling circuits.
- High protection against corrosion and rust.
- Excellent thermal and oxidation stability.
- Excellent filterability results, with or without humidity contamination.
- Excellent performance in relation to seals and elastomers.

### SPECIFICATIONS

- DIN 51524 Part 3 HVLP
- ISO FILTERABILITY (Dry&Wet)
- BOSCH-REXROTH 90220 (ISO 32, 46, 68)
- ISO 11158 HV
- DENISON FILTERABILITY
- EATON Brochure 03-401-2012
- AFNOR NF-E 48-603 HV
- PARKER DENISON HF-0, HF-1, HF-2
- FIVES CINCINNATI P-68 (ISO 32), P-69 (ISO 68), P-70 (ISO 46)

### TYPICAL CHARACTERISTICS

CHARACTERISTIC	UNITS	STANDARD	CEPSA MISTRAL HX				
			32	46	68	100	150
<b>ISO GRADE</b>							
Density at 15°C	Kg/l	ASTM D-4052	0.871	0.877	0.885	0.887	0.894
Flash point, V/A	°C	ASTM D-92	>200	>200	>200	>200	>200
Freezing point	°C	ASTM D-5950	-48	-39	-36	-36	-30
Viscosity at 40°C	cSt	ASTM D-445	31.4	47.4	68.2	96.9	143.8
Viscosity at 100°C	cSt	ASTM D-445	6.3	8.4	10.9	13.6	16.5
Viscosity index	-	ASTM D-2270	157	154	151	141	123
Copper corrosion 3h, 100°C	-	ASTM D-130	1B	1B	1B	1B	1B
Rust Characteristics	-	ASTM D-665B	pass	pass	pass	pass	pass

### HEALTH & SAFETY AND ENVIRONMENT

A Material Safety Data Sheet providing information on product hazards, handling precautions, first aid measures, and relevant environmental data is available for this product in accordance with the applicable legislation.

The typical values of the characteristics appearing in the table are average values given for guidance purposes only and do not constitute a guarantee. These values may be modified without any prior warning.