



## PROTECTOR MCS 5025

### Low Speed Marine Engine Cylinder Oils

#### PRODUCT DESCRIPTION

PROTECTOR MCS 5025 is a high alkalinity marine engine cylinder oils blended with high quality base oil and modern additive packages for slow speed crosshead marine engines which are using fuels of high Sulphur content. Provides superior cleaning at cylinder liners, bucket rings and piston subarea with the help of special dispensers in the formulation balanced with cleaner and acidity regulating additives.

#### ADVANTAGES

- Protect cylinder parts against corrosion due to its high TBN value.
- Include alkalinity in the range that can resist the effects of Sulphur in the fuel.
- Extend the engine maintenance period due to their long service life and optimum protection properties.
- Superior thermal and anti-oxidation stability.
- Keep all the engine parts clean even under excessive fouling formed because of heavy fuels.

#### CHARACTERISTIC PROPERTIES

Viscosity Grade : SAE 50

Analysis	Unit	Analysis Method	Typical Values
			MCS 5025
Density, 15 °C	g/cm <sup>3</sup>	ASTM D 4052	0,9101
Viscosity, 40 °C	cSt	ASTM D 445	197,8
Viscosity, 100 °C	cSt	ASTM D 445	17,93
Viscosity Index	-	ASTM D 2270	99
Pour Point	°C	ASTM D 97	-15
Flash Point	°C	ASTM D 92	260
TBN	mg KOH/g	ASTM D 2896	25

*All the information and figures mentioned above are typical of those obtained with normal production tolerance and verified with quality control test results.*

## ADDITIONAL INFORMATION

### Package

- 180 kg
- IBC
- Bulk

### Storage

- Packages should be stored in cool, well-ventilated and covered areas; and their taps should be tightly closed and sealed when not in use.
- Packages should not be exposed to direct sunlight and avoid rapid climatic changes.
- Ambient temperature should not exceed 60 °C.

### Health and Safety

Based on the available information, PROTECTOR MCS 5025 is not expected to produce adverse effects on health when used for the intended application and aligned with the recommendations provided in the; "Material Safety Data Sheet" (MSDS). MSDS's are available upon request through your sales contact office or representative.

When disposing the used product, physical and chemical properties have to be taken into the consideration, and please follow the regional or national regulations.

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