cyclon® ENGINEERED TO PERFORM

TECHNICAL PRODUCT SHEET

ARMOR MEDIUM SAE 30

DESCRIPTION

ARMOR MEDIUM is a high-performance system oil suitable for the lubrication of low-speed crosshead marine diesel engine crankcase. It is produced with highly refined base stocks and employs an advanced anti-corrosion and detergency additive chemistry to neutralize combustion acidic by-products entering the crankcase. ARMOR MEDIUM may also be used as a cooling medium in the area piston ring.

APPLICATIONS

ARMOR MEDIUM contains alkaline additives and are recommended for the lubrication of the crankcase of large, low-speed crosshead marine diesel engines. It exceeds the requirements of all major 2-stroke engine OEMs. Its alkalinity level is adequate to neutralize crankcase contaminations or combustion acidic by-products in 4-stroke trunk piston diesel engine running on distillate fuels and hence requiring low alkalinity levels. It is also suitable for lubricating plain bearings of turbochargers, shaft bearings, stern tube and seals, meeting the requirements of major OEMs.

SPECIFICATIONS

Everllence ES Category I (NOL)
Mitsubishi
Meets: API CC
WinGD (NOL)
Kernel

PROPERTIES

ARMOR MEDIUM offers exceptional rust and oxidation protection, supported by very good demulsibility that enables rapid and efficient water separation. Reinforced with superior detergent–dispersant additive chemistry, it helps maintain system cleanliness and operational reliability. Its good thermal stability and oxidation resistance ensure consistent lubrication performance and extended service life across a wide range of industrial applications.

BENEFITS

ARMOR MEDIUM prevents corrosion of engine parts even during prolonged periods of inactivity, ensuring reliable protection under standby conditions. It effectively neutralizes acidic combustion products that migrate into the crankcase, keeping crankcases, piston interiors and lubricating oil lines clean. With high resistance to oil thickening, it helps maintain a clean sump and reduces purification costs, delivering stable, long-lasting lubrication performance in demanding marine and industrial applications.

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PHYSICAL-CHEMICAL CHARACTERISTICS

ARMOR	METHOD	MEDIUM
SAE Grade		30
Density at 15°C, g/cm^3	ASTM D4052	0.887
Viscosity, Kinematic (cSt) 40°C	ASTM D445	104.0
Viscosity, Kinematic (cSt) 100°C	ASTM D445	11.5
Viscosity index	ASTM D2270	97
Flash point, COC, °C	ASTM D92	242
Pour point, °C	ASTM D97	-15
TBN, mgKOH/g	ASTM D2896	5

The above mentioned characteristics represent mean values.

STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.

HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).

USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.