



MARINE ARMOR MEDIUM



DESCRIPTION

ARMOR MEDIUM is a high performance system oil, of moderate alkalinity, suitable for lubrication of low speed crosshead marine diesel engines. They are made of highly refined lubricating base stocks and possesses excellent anti-corrosion and detergent properties neutralizing, in this way, the acidic combustion products that can enter into the crankcase. ARMOR may also be used as a cooling means in the area piston ring.

APPLICATIONS

ARMOR MEDIUM contains alkaline additives and are recommended for the crankcase lubrication of large, low speed crosshead type marine diesel engines operate on residual fuel. They meet the Wärtsilä NSD (Sulzer) & MAN D&T crosshead engine system oil requirements.

CHARACTERISTICS-BENEFITS

CHARACTERISTICS	BENEFITS
Exceptional rust & oxidation properties; very good demulsibility for rapid water separation.	Prevent corrosion of engine parts even when the engine is not in operation for long time.
Enforced with dispersants and detergent additive system.	Effective neutralization of acidic combustion products that enter to crankcase; ensures clean crankcases, piston interiors and lubricating oil lines.
Good thermal stability and oxidation resistance.	High resistance to oil thickening, clean sump, reduced purification cost.

PHYSICAL-CHEMICAL CHARACTERISTICS

ARMOR	METHOD	MEDIUM
SAE		30
Density at 15°C, g/cm ³	ASTM D1298	0,887
Viscosity, Kinematic (cSt) 40 ⁰ C	ASTM D445	104
Viscosity, Kinematic (cSt) 100 ⁰ C	ASTM D445	11,5
Viscosity index	ASTM D2270	97
Pour point, °C	ASTM D97	-15
Flash point, COC, °C	ASTM D92	242
TBN, mgKOH/g	ASTM D2896	5

The above mentioned characteristics represent mean values.

SPECIFICATIONS

MAN D&T (NOL)