



Navy Rusan

Rust preventive for Ship Ballast Tanks

DESCRIPTION

Navy Rusan is a solvent free rust preventive that creates a protective film that exhibits strong metal adhesion.

When applied to the inner walls of ballast tank, the movement of water does not impact or disturb the protective film.

The Film remains wet and is resistant to sea water.

HOW TO USE

- Please roll and shake the package before use
- Application by Flotation
 - 2Ltrs of Navy Rusan per Tonn of tank volume
 - Empty the tank to be treated and added 2/3 of calculated quantity of Navy Rusan
 - Slowly fill water to 50% of the tank volume – Navy Rusan floats on top of water and coats the walls, trusses, etc
 - Add the remaining 1/3 of calculated quantity of Navy Rusan & Fill the remaining tank volume with water
 - Wait 45min and drain the tank to just above the lowest level, to ensure not to pump out any remaining Navy Rusan
 - If some uncoated areas are observed, coat with Navy Rusan manually by spray or brush
- Application by Spray or Brush
 - 1Kg of Navy Rusan per $\pm 4\text{m}^2$
 - If heavy rust and sludge is present, use 5 to 10% higher quantity of Navy Rusan

FEATURE > BENEFITS

Strong adhesion to metal > Protective film not disturbed by physical movement of water

Easy to remove > Using solvent cleaners like TotalEnergies Finasol MF

TYPICAL CHARACTERISTICS

Typical characteristics	Methods	Units	Navy Rusan
Color	Visual	--	Beige
Density @ 20°C	ASTM D 4052	Kg/m ³	900
Viscosity @ 40°C	ASTM D 445	mm ² /sec	153
Flash Point	ASTM D 92	°C	285
Pour Point	ASTM D 97	°C	-9

The characteristics shown in this table are typical values given for illustrative purposes.

This lubricant used as recommended and for the application for which it has been designed does not present any particular risk. A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial advisor or downloaded at ms-sds.totalenergies.com