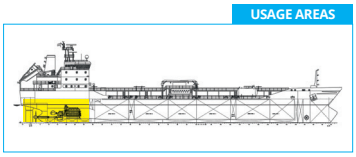
Global
Marine
Solutions

DESCALING LIQUID

Acid Descaler for Water Scale and Rust Deposits

Technical Information

PHYSICAL DATA



Appearance:	Aqueous red
Specific gravity:	1,15 at 20°C.
Flash Point:	None
pH (1% solution):	1

DESCRIPTION

Liquid acid compound containing descaling accelerators and corrosion inhibitors.

- Removes hardness scale from water systems
- Removes rust and rust scale from ferrous metals (except stainless steel)
- Improves heat transfer efficiency
- Inhibited against attack on ferrous metals

APPLICATION

- Removal of hardness scales from boilers, condensers, evaporators, heat exchangers, diesel engine cooling systems, air coolers sea water side, etc.
- Removal of rust scale from all ferrous metal surfaces

ADVANTAGES

- Fast and efficient scale removal.
- Complete rust removal
- Contains descaling accelerator to increase product action
- Contains protective corrosion inhibitor -Inhibits attack on ferrous metals.
- Highly concentrated product -Rapidly rinsed.
- In-situ cleaning eliminates need for extensive dismantling

DESCALING LIQUID

DIRECTIONS FOR USE

Descaling can be accomplished by circulation, for large components and systems, by in-situ soaking, or by soaking in an immersion bath for small components.
The most effective method is by circulation as it ensures renewal of acid film in contact with the scale.

Circulation method

1. If deposits to be removed are covered with an oil or grease film, a degreasing treatment with a solution of 2% to 8% of ALKACLEAN, CARBON REMOVER, SEACLEAN with water should be used prior to descaling, by circulating for 4 to 6 hours up to a temperature of 60°C.
2. After degreasing (where necessary) a descaling treatment of a solution of 10% to 20% of DESCALING LIQUID with water should be circulated for between 24 to 36 hours for hardness scale, and 1 to 4 hours for de-rusting, depending on nature and state of deposits.
3. Ensure circuit is vented at the highest point to release gases produced during the descaling operations.
4. Product solution may be heated to increase the descaling process rate. DO NOT EXCEED 40°C as chlorine gas may be liberated above this temperature.
5. Check the acid concentration of the solution regularly. If it drops to less than 1/2 initial concentration, regenerate the solution by adding more DESCALING LIQUID.
6. Determination of the concentration may be found using an Acidity Test Kit (obtainable from Uniservice Unisafe).
7. By placing scale samples in easily observed positions, a check on the progress of the descaling operation may be made. When the samples are completely dissolved and effervescence has stopped, circulate for one more hour then drain system thoroughly.
8. Rinse system thoroughly with water then drain.
9. To neutralize any remaining traces of acid and to passivate the circuit, circulate a 1% to 2% by weight solution of ALKALINITY CONTROL for 2 to 6 hours.
10. Neutralize acidic effluents drained from the descaling solutions by using ALKALINITY CONTROL until an acceptable pH value is obtained.

Soaking Method

- Procedure is similar to that for circulation, i. e. Degreasing, Descaling (ensuring venting), Rinsing and Neutralization.
- The same solution strength should be used.
- If agitation of the descaling solution can be practiced, this will help to renew the acid film coming into contact with the scale.

IMPORTANT NOTICE

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