

DESCALING LIQUID

1. DESCRIPTION

Liquid acid compound containing descaling accelerators and corrosion inhibitors.

2. APPLICATIONS

Removal of hardness scales from boilers, condensers, evaporators, heat exchangers, calorifiers, diesel engine cooling systems, and air coolers seawater sides etc.

Removal of rust scale from all ferrous metal surfaces except stainless steel.

3. 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

- 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.
- 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 derusting, depending on nature and state of deposits.
- Ensure circuit is vented at the highest point to release gases produced during the descaling operations.
- 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.
- Check the acid concentration of the solution regularly. If it drops to less than ½ initial concentration, regenerate the solution by adding more **DESCALING LIQUID**. Determination of the concentration may be found using an Acidity Test Kit (obtainable from UNIAMERICAS).
- 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.
- Rinse system thoroughly with water then drain.
- 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.
- Neutralize acidic effluents drained from the descaling solutions by using ALKALINITY CONTROL until an acceptable pH value is obtained.

ACID DESCALER FOR WATER SCALE AND RUST DEPOSITS

Product Highlights

- 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.
- On-site cleaning eliminates need for extensive dismantling.

Product Characteristics

Appearance:	Clear yellow liquid
Corrosive action:	Muriatic
Specific gravity:	1.1-1.2 (20°C)
Flash Point:	None
pH:	<1

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DESCALING LIQUID

Soaking Method

- Procedure is similar to that for circulation, i.e. Degreasing, Descaling (ensuring venting), Rinsing and Neutralization.
- The same solution strengths 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.

4. OTHER INFORMATION

- 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.
- On-site cleaning eliminates need for extensive dismantling.