

SAFE DESCALER

1. DESCRIPTION

Water-soluble acid powder compound containing descaling accelerators, corrosion inhibitors and indicator dye.

2. APPLICATIONS

- Descaling of diesel engine cooling water systems.
- Cleaning and scale removal from air coolers seawater sides.
- Water scale and rust scale removal from boilers, condensers, evaporators, heat exchangers, etc.

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 decreasing (where necessary) a descaling treatment of a solution of 5% to 10% by weight of **SAFE DESCALER** 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. To avoid saturating the solution, do not exceed a solution strength of 10%.
- 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 up to a maximum of 60°C. Over 35°C slight corrosive action may occur on light alloys and galvanized surfaces.
- Check the acid concentration of the solution regularly by using pH indicator paper. To avoid the possibility of a saturated solution, no more than 2 additions should be made. If further treatment is necessary the circuit should be drained and a fresh charge introduced.
- 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.

POWDERED ACID DESCALER

Product Highlights

- Fast and effective scale removal.
- Leaves rust free surface.
- Contains descaling accelerator to increase product action.
- Inhibited against corrosive attacks.
- Rapidly rinsed.
- Powder product – handling and storage safer and easier.

Product Characteristics

Appearance:	White powder
Corrosive action:	Acid
Flash Point:	None

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clean chemicals clean ships clean seas



SAFE DESCALER

Soaking Method

- Procedure is similar to that for circulation, i.e. Degreasing, Descaling (ensuring venting), Rinsing and Neutralizing.
- 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 effective scale removal.
- Leaves rust free surface.
- Contains descaling accelerator to increase product action.
- Inhibited against corrosive attacks.
- Rapidly rinsed.
- Powder product – handling and storage safer and easier.