

# PIK KEMICAL

## CHEMICAL TECHNOLOGIES

# Descaling

E/1

ACID DESCALER FOR WATER SCALE AND RUST DEPOSITS

### CONTACT US

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### DESCRIPTION

Liquid acid scales remover containing a corrosion inhibitor for ferrous metals.

### APPLICATIONS

Used for water systems and equipment made of ferrous metals: scales removing, deoxidating, pickling before starting up of: industrial and marine boilers, heat exchangers, refrigerating condensers, cooling water systems, pipelines, etc.

### ADVANTAGES

Protects metals with a corrosion inhibitor. Contains a pH colour indicator.

The active solution is brownish red and turns to yellow when the solution loses power. To renew scales remover action, add DESCALIN until the solution becomes brownish red again.

- This composition meets the criteria for not being harmful to the marine environment according to MARPOL Annex V (resolution MEPC.201(62)).

### INSTRUCTIONS

Two procedures are possible:

#### 1) By circulation

##### Preparation:

- Empty the circuit.
- In case the circuit inspection reveals the deposits are covered by grease, it is strongly recommended to degrease the circuit, by circulating:
  - An alkaline solution of ALKACLEAN between 2 and 5% (if grease deposits are vegetable or animal fat)
  - Or an emulsifying solution of SEACLEAN at 5% (if the grease deposits are mineral).

- Prepare a 10 or 20% solution of DESCALING
- Install a gas exhaust outlet in the upper part of the system.

##### Scales removing:

- After discharge of the degreasing solution, introduce progressively the DESCALING solution.
- Circulate heated solution (max 60°C) for overall 12-18 hours depending on deposit consistency.
- The dissolving of carbonate deposits produces carbonic gas and foam.
- After the scales removing, empty the circuit from the lower side, flushing where possible with a pressure hose.

##### Neutralization:

- Neutralize traces of acid residuals passivating the circuit by circulating for 2 hours, possibly hot at 50°-60 °C, a solution of ALKALINITY CONTROL 1 - 2%.
- Empty the circuit.
- Fill up with fresh water and resume regular water treatment;

#### 2) By dipping (use stainless steel or PVC tanks)

The operation is similar to the former one: Preliminary degreasing, if required.

The quantity of DESCALING used is in principle 10% of the total volume of the solution.

Solution must be heated up to 60°C. For a layer of approx 2/3mm, use a solution of 8/12%; for a thicker or thinner layer, use a more or less concentrated solution. At the end of the scales removing treatment proceed to neutralization.

### PRECAUTIONS

Handle with care, use gloves and protective glasses and if there is possibility of spraying, also aprons and boots. In case of contact with the eyes, rinse thoroughly with fresh running water or sodium bicarbonate solution and seek urgent medical assistance.

### PACKAGING

- Non returnable
- Plastic pails 25 liters