

# A-187 DESCALER LIQUID

## A- 187

### DESCALER LIQUID

- Effectively remove scale, rust and mineral deposits from equipment and systems
- Contain corrosion inhibitor to prevent attack of sound base metals during cleaning process
- Economical in use

#### PRODUCT DESCRIPTION:

A-187 DESCALER LIQUID is a powerful acid liquid cleaner contain corrosion inhibitor and penetrating agents. Designed to remove rust, scale and corrosive products from ferrous metals.

Best for removing of mineral deposits, fouled, rust, scale, corrosion product and sludges from cooling system, boilers waterside, heat exchangers, condensers, evaporators, water pipes, calorifiers and diesel engines.

A-187 DESCALER LIQUID contains inhibitors to prevent attack of sound base metals once the corrosion products are removed. It may be used to clean copper and brass, and reactive metals such as aluminium, zinc, etc. However, care is needed in such applications.

#### DIRECTION FOR USE:

For general descaling of heat exchanger units, evaporators, boilers or cooling systems, ideally by circulating.

Remove any oil, grease, carbonised oil by using APEX-303 ECOCLEAN or APEX-550 SEACLEAN VOYAGE before carry out acid cleaning.

Dilute A-187 DESCALER LIQUID with fresh water to form a 20-40% solution depending upon the quantity of the deposit. The solution is then recirculated as required to remove scale formation.

The solution can be heated up to 40–50°C if necessary. When unusually heavy deposits are encountered, a sample of scale should be immersed in the recommended solution strength to determine the approximate time necessary for removal.

Upon completion of acid cleaning operation, the system should be flushed thoroughly with fresh water and follow by using AWT-11 ALKALINITY COMPOUND and circulating for 2 – 4 hours to remove any trace of acid and passivate the metal surfaces.

#### **COLD DERUSTING OF IRON & STEEL**

Always remove loose rust and scale before using A-187 DESCALER LIQUID. If the metal to be cleaned is heavily contaminated with grease, oil or fat, a preliminary cleaning is recommended. Prepare 20-40% solution of A-187 DESCALER LIQUID, depending on the degree of contamination.

Soak the articles to be de-rusted into the concentrated solution of A-187 DESCALER LIQUID in a container for 5-10 minutes. After total removal of deposits, remove the articles from the container and rinse with water.

Accumulated residue at the bottom of the container should be removed regularly to prevent loss of active materials. Topping up with fresh A-187 DESCALER LIQUID would be essential to maintain a concentrated and effective rust remover solution.

### **CAUTION**

In old systems which had not been previously treated or frequently serviced, especially where condenser tubes are heavily pitted, care must be taken as rust removing properties of A-187 DESCALER LIQUID may expose holes in area penetrated by rust.

**Always add chemical to water not the reverse**

### **REACTIVE METALS**

A-187 DESCALER LIQUID will attack aluminium, zinc, die cast alloys at higher concentrations. However, at dilution of 1 to 12 parts or more with water and temperatures of 40-50°C, these metals may be satisfactorily cleaned. Remove these materials and rinse thoroughly as soon as cleaning is complete.

**Approval:** The composition meets the criteria for not being harmful to the marine environment according to MARPOL Annex V and may be discharged into the sea when used to clean cargo holds and external surfaces on ships.

### **PHYSICAL PROPERTIES**

Appearance	: Light brownish
Relative Density	: 1.10 – 1.20
Form	: Liquid
pH	: <1.0

**Packaging** : Supplied in 25 litres non-returnable containers.

### **Important information:**

Apex chemicals Safety Data Sheets are available. Safety Data Sheets contain health and safety information for proper products handling procedures to protect your employees. Our Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using.

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