

# DESCALER

## DESCRIPTION

**A-187** is a powerful liquid cleaner designed to remove rust, scale and corrosive products from ferrous metals. **A-187** contains acids, inhibitor and penetrating agents for cleaning of fouled and sludged cooling system, removing rust, scale or deposits in boilers, heat exchangers, condensers, evaporators, water pipes, calorifiers and diesel engines.

The use of **A-187** will eliminate costly down time and expensive manual descaling operations. **A-187** 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 general descaling of heat exchanger units, evaporators, boilers or cooling systems, prepare 20-40% solution of **A-187** 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 cleaning operation, the system should be flushed thoroughly with fresh water. An alkaline solution may be circulated to passivate the metal surfaces.

## COLD DERUSTING OF IRON & STEEL

Always remove loose rust and scale before using **A-187**. 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**, depending on the degree of contamination. Soak the articles to be de-rusted into the concentrated solution of **A-187**, 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** 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** may expose holes in area penetrated by rust.

### **REACTIVE METALS**

**A-187** will attack aluminium, zinc, die caster 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.

### **SAFETY AND HANDLING INFORMATION**

Protective Measures	Wear acid resistant gloves, safety goggles and footwear. Use in adequately ventilated areas. Avoid breathing in vapour. Wash hands with water after use.
Spillage & Disposal	Confine spill and stop leak at source if possible. Ventilate area and evacuate all non-essential personnel. Pump spillage into original containers (or equivalent containers) for disposal. Avoid contact with skin, eyes or clothing. Absorb remaining liquid with inert material such as dry sand or sawdust. Neutralize with alkaline materials if necessary.
<b><u>FIRST AID</u></b> Eyes	Hold eyes open, rinse eyes with copious amount of water for at least 15 minutes. Seek medical advice.
Skin	Flush with large amount of water, use soap if available. Remove contaminated clothing, including shoes and laundry before reuse. Seek medical attention if effect persists.
If Inhaled	Evacuate victim to open air. Administer artificial respiration if breathing has stopped. Keep at rest. Seek prompt medical attention.
If swallowed	Rinse mouth; then drink 1 or 2 large glasses of water. Do not induce vomiting. Seek prompt medical attention. Never give anything via mouth to an unconscious person.
<b><u>HANDLING</u></b> Storage & Transportation	Product should be stored and transported in original containers. Keep container lid tightly closed. Store in a cool and dry area, away from direct sunlight and alkaline materials.
Packaging	Packed in 25 and 200 litres non-returnable containers.

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