

## SCALE OFF

**SCALE OFF** is a balanced blend of Hydrochloric Acid, wetting agents and high temperature inhibitors.

**SCALE OFF** is used for the removal of water scale, mill scale, rust, beer stone, milk stone and cement deposits from boilers, heat exchangers, economisers, condensers, air conditioners, scaffolding, shutter boards and face bricks.

**SCALE OFF** at 10% - 50% (V/V) offers protection against acid attack on mild steel and copper alloys. The product is unsuitable for use with magnesium alloys, aluminium alloys and zinc alloys. Additionally, austenitic stainless steel alloys should not be treated with **SCALE OFF** because of the risk of stress corrosion cracking through contact with chloride ions.

**SCALE OFF** will only dissolve rust, scale etc. leaving a bright metal surface with no sign of acid attack. The corrosion inhibitor will afford protection of free steel up to 90 degrees C during the life of the solution. Temperature greatly reduces de-scaling time. Solutions are applied in one of four ways:

- Circulation of **SCALE OFF** through equipment (in situ)
- Filling equipment and allowing a soak period.
- Immersing articles in a tank containing **SCALE OFF**.
- Applying solution by brush or spray.

### PRECAUTIONS

- When circulating, vent points are essential in order to expel any gasses produced during cleaning.
- The vent points must be at the highest points of the circuit, and it is common practice to lead hoses from these points back to the mixing tank.
- Tanks should be rubber-lined, plastic or fibreglass.
- Always add acid to water.
- Handle with care and wear protective clothing.
- Don't air agitate acid solutions.
- Applications of **SCALE OFF** should be followed by thorough rinsing, then neutralizing with an alkaline solution.