

Introduction

Water scales, lime deposits are formed in, boilers, piping system, power plants evaporating equipment, heat exchangers due to hardness in feed water.

Similarly scales formed in oil refineries, utilities like air conditioning equipment, paper mills, chemical plants and other various industries.

These scales reduce the operating efficiency due to reduction in heat transfer, increase in pumping cost due to reduction in inner diameter in pipes. Hence Descaling operations are part of the maintenance programme & for fuel economics of equipment.

Descaling is a process to remove scale using suitable acid, either by circulation or filling the equipment with the acid solution. The acid dissolves the scale or attacks the metal surface below the scales, by dissolving the metal and generating hydrogen gas, which develops sufficient pressure to blow off the scales. It continues to attack the metal needlessly, in process metal loss is inevitable.

This product is formulated for following benefits

- ✓ Saves dissolution of metal
- ✓ Life of the equipment increases
- ✓ Acid brittleness is minimised
- ✓ Uniform descaling or pickling is achieved
- ✓ Better surface finish, with no over pickling, blistering & pickle burning

Specification

Chemical nomenclature	Inhibited acid
Appearance	Clear reddish orange liquid
Solubility	Readily soluble in water
pH	2- 3
specific gravity	1- 1.1
Metal Loss	Less than 3.0 g/ M ² /hr
Shelf life	Twenty months from date of manufacture

Operation parameter

Concentration	5 to 20 % of DSCALANT – S in water
Temperature	Ambient room temperature (12°C to 50°C)
Immersion Time	30 – 60 minutes

Operational Procedure

- Dissolve **DSCALANT – S** in water in recommended proportion.
- Dip the Component in the solution or circulate through acid proof pump in the equipment.
- Depending upon the scale allow the immersion or circulation period of 30 to 60 minutes. In exception cases the time may take upto 24 hours
- Remove the Dscalant and rinse the part with clean water.
- Use neutralizer in recommended proportion to remove traces of acid from the components descaled.

Note: the **DSCALANT –S** will not remove silica scales. Make experiment to check the solubility of scales in **DSCALANT –S** before beginning the operation.

Equipment: Acid proof tanks for immersion or acid proof pumps for circulation.

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