



SUPER SIL DESCALER

SILICATE SCALE REMOVAL

VCE-010004

PRODUCT DESCRIPTION

SUPER SIL DESCALER is a special descaling solutions for silica or silicates scales removal. **SUPER SIL DESCALER** includes ingredients: descaling agents, corrosion inhibitors, surfactants, dispersants.

SUPER SIL DESCALER is designed to remove silicate scale, calcium carbonate scale, rust and impurities, etc. for heat exchange surfaces of equipments:

- Chiller, Cooling Tower
- Condenser
- Heat exchangers
- Boiler
- Compressor
- Vacuums
- Pipes
- Etc.

FEATURES & BENEFITS

- Powerful detergents, equipment is cleaned in a few hours..
- Removing the scale build up allows your equipment to operate more efficiently with less down time, without disassembling any part of the equipment.
- **SUPER SIL DESCALER** contains more superior corrosion inhibitors, safe on most materials:
 - Iron
 - Steel
 - Cast iron
 - Copper
 - Brass
 - Plastic
 - Rubber
 - Other metals and materials
- **SUPER SIL DESCALER** is a safe non-toxic.
- It is safer for the employees to use than other acid products.

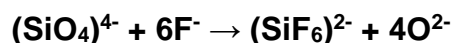
PRINCIPLES

Somewhere, water has high silica content (SiO_2), the scale build up on the heat exchanger surface of devices operating in the area, which usually includes: silicate scale ($\text{Ca}_3\text{Al}_2(\text{SiO}_4)_3$, $\text{Ca}_3\text{Fe}_2(\text{SiO}_4)_3$, Fe_2SiO_4 , $\text{Mg}_3\text{Al}_2(\text{SiO}_4)_3$, etc.), calcium carbonate scale (CaCO_3), mud, rust and organic impurities.

Silicate scale is often difficult to be removed by common cleaning solutions such as: handwork cleaning method, usual cleaning chemical (acid, chelate, alkaline,) etc.

SUPER SIL DESCALER removes scale according to the following reactions:

Reaction to soften and remove silicate scale



Reaction to remove calcium carbonate scale (CaCO_3)



Caution:

- + Do not use product on aluminum or galvanized equipments.
- + Proper human safety products such as splash goggles, gloves and boots should be worn while handling and applying chemicals.

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DIRECTIONS FOR USE

SUPER SIL DESCALER can be used for soaking or circulating pumps.

Using **SUPER SIL DESCALER** according to the following recommendations:

Thickness of scale (mm)	Dilution ratio (sol : w)	Time (h)
>2	1:0 - 1:1	>12
1-2	1:1	12
0.5-1	1:1	5-8
0.5	1:2	5

Note:

- + Can be change the phase ratio and cleaning time to match the condition of your device. Contact VCE for advice.
- + For scale with the thick (> 1mm) and high silicate component ratio, SUPER SIL DESCALER only helps remove part of scale and soften the residue, use chiller tube cleaning kit to re-clean the device if necessary.

Diagram installation of circulating system

