

C-LON-DS

DE-SCALING CHEMICAL

The Complete Cleaning Solution

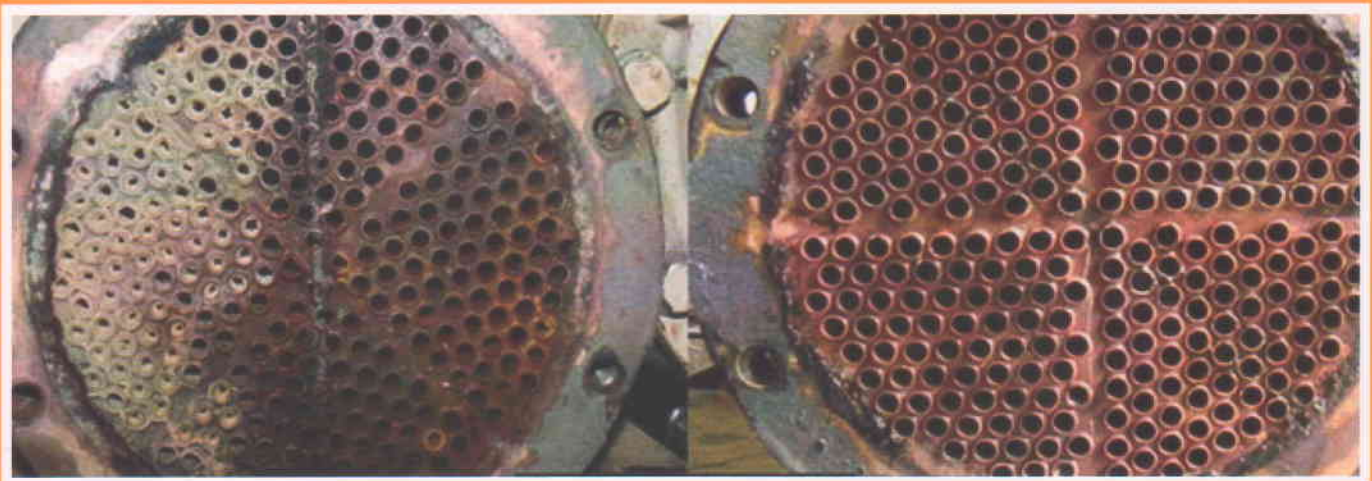
Cleaning as in nature, but we do chemically



Before De-Scaling



**After Using C-LON-DS
(De-Scaled Tubes)**



CLEAN CHEM & ENGINEERS

AN ISO 9001:2015 CERTIFIED COMPANY

PRODUCT PROFILE

Clean Chem offers **C-LON-DS** range of de-scaling chemicals in various grades for multiple applications. This is fully inhibited formulation. Have no adverse affect over metals except zinc, aluminium and tin. Jointing & packings are not affected. **C-LON-DS** keeps the metals loss within the permissible limits.

PRODUCT PHYSICAL PROPERTIES

Appearance	White / Yellow / Green / Red
Form	Liquid
Flash point	None
Volatility	Light
Specific gravity	1.12
pH	2-2.5
Odour	Pungent
Rinsability	Excellent



PRODUCT BENEFITS

C-LON-DS cleans all type of scale deposits either composing hematite, magnetite, silicates, alkaline earth salts and/or any typical complex compound of calcium & magnesium etc. This leaves no deposits over metal plate hence ensures complete cleaning.

PROBLEM CAUSED BY SCALE DEPOSITS

Scale acts as a good insulating materials affects heating and cooling rate of transfer.

Affect boiler performance as shown below :

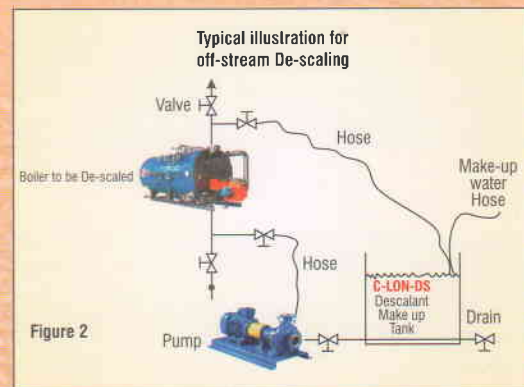
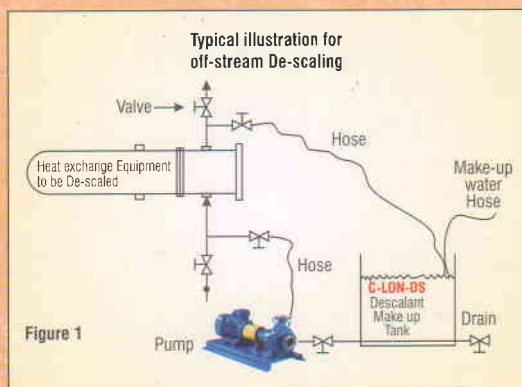
SCALE DEPOSIT FACTOR	HEAT LOSS	INCREASED FUEL CONSUMPTION
1/32" (0.8 mm)	8%	2.0%
1/16" (1.6 mm)	12%	2.5%
1/8" (3.2 mm)	20%	4.0%

Create premature wear and replacement of heat transfer equipment.

THE FIVE STEPS APPROACH OF DE-SCALING

Clean Chem achieves the goals of cleaning job of boiler/equipment in five steps :

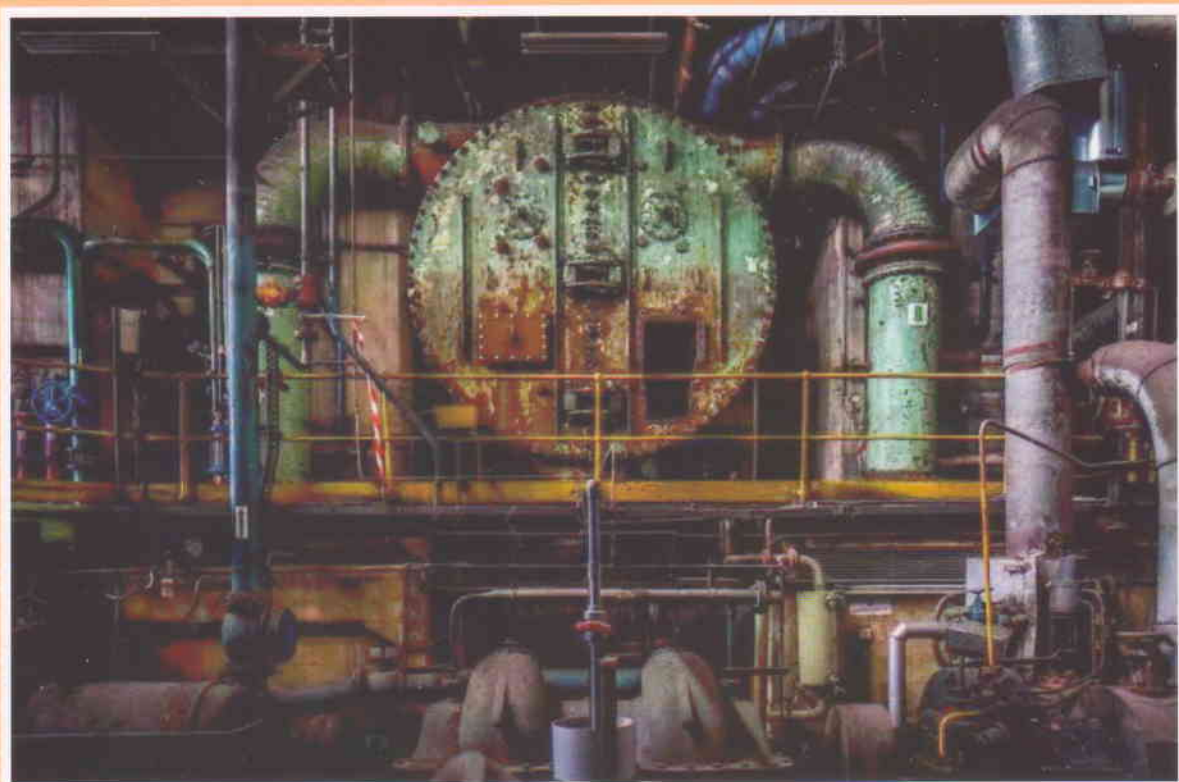
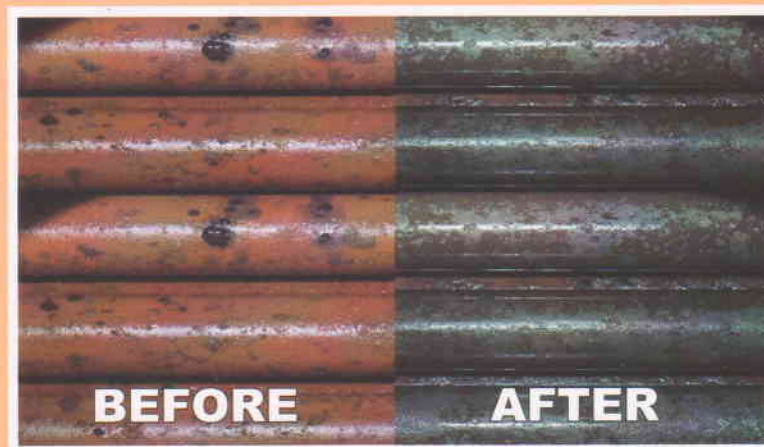
- 1. PRE-CLEANING PREPARATION** : The boiler/equipment to be de-scaled is isolated to ensure that the cleaning solution can't escape and contaminate other equipment, pipes or water lines.
- 2. CONNECTION MAKING** : Proper connection for uniform circulation of **C-LON-DS** solution as shown in figures 1 & 2.



3. TEST FOR INTEGRITY : One precautionary feature of Clean Chem method is to use water circulation and hold for some time on the entire system. This test checks for leaks that could allow the solution to escape during cleaning.

4. PROCESS : Make a solution of **C-LON-DS** with water in the ratio of 30-35%. The boiler/equipment is filled with the solution. Inhibitors allows the chemical to dissolve the scale without adversely affecting the boiler/equipment. The solution is then circulated throughout the system being cleaned. Strengthened the solution by adding more **C-LON-DS** from time to time and circulate it until all deposits are dissolved. During cleaning a temperature of 55-60°C is given to the solution, however, in some cases de-scaling may be at room temperature. After satisfactory cleaning, solution is removed back.

5. NEUTRALIZATION AND WASHOUT : The boiler/equipment is filled with water that includes a neutralizing solution, that neutralizes and residual chemicals left in the system. The neutralized solution, now at pH of 7, drained from the boiler/equipment. Boiler/equipment thoroughly washed out with a large volume of water to remove any remaining residue.



APPLICATIONS

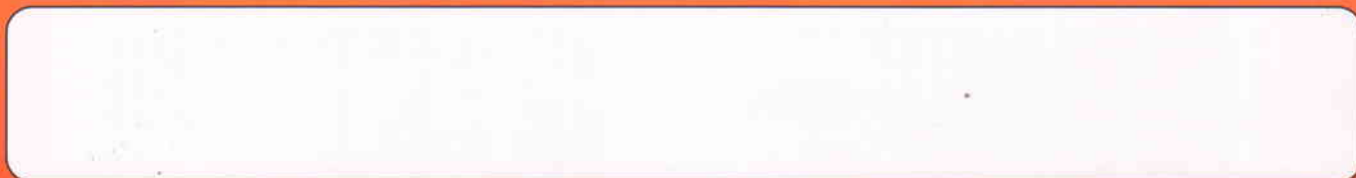
- Boilers
- Economizers
- Superheaters
- Condensers
- Heat Exchangers
- Cooling Towers
- Heating & Cooling Coils
- Storage Tanks
- Radiators
- Air Conditioning & Refrigeration Plants
- Sugar Mill Bodies Like Pans, Juice Heater, Evaporators and Piping System etc.



How can WE help You ?

For additional information on the C-LON-DS, and find out how we can apply that to your needs, call local Clean Chem technical representative or directly to us.

Our Channel Partner For Your Region :



INFORMATION IN THIS PUBLICATION MAY BE AMENDED WITHOUT PRIOR NOTICE



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