



# PARAS - 11

Descaling Chemical  
(For Boiler, Condensor,  
Heat Exchanger)

**PRODUCT** : "PARAS - 11" is a strong acid and polyacrylate based formulation with Corrosion inhibitor specially made to remove / Loosen scale in steam Boiler and Condensor caused due to deposition of Calcium, Magnesium, Silica and other hardness forming salts. The Product does not affect Boiler and Condensor metal S.S., M. S. and Copper.

**FEATURE** : Ready to use Liquid. Helps save substantial time loss involved in Manual cleaning / Descaling. Loosens up even the hardest form of scale like Silica, which is very difficult to remove manually. Descaling of the system is better than Manual cleaning resulting in higher efficiency of the system

**PRODUCT DATA** : Appearance : Pale Yellow to Light Brown Colour Liquid  
pH : Acidic (< 2)  
Sp. gr. at 25° C : 1.100 to 1.135

**QUANTITY REQUIRED** : 10 – 20% of total water quantity in recirculation in Boiler / Condensor. The quantity requirement of "PARAS - 11" and time duration for Descaling may vary depending upon type and quantum of scale deposition in Boiler/Condensor Tubes.

**PROCEDURE FOR DESCALING** :

1. Atleast a 500 Litres capacity tank / drum and an adequate capacity pump is required for recirculation of 'PARAS-11' chemical in the Boiler/ Condensor.
2. 10% strength of the chemical and pH below 2 should be maintained all the time by periodical addition of "PARAS-11" in the recirculating water. Begin with Chemical dilution with water in the ratio 1:4 for Condensor Descaling.
3. The temperature of Recirculating chemical at 70 – 80 ° C in case Boiler Descaling and 60 - 75 ° C in case of Condensor Descaling should be maintained.  
**Duration:** 24 – 36 hours Approx Recirculation in case of Boiler and 12 – 16 hours in case of Condensor, maintaining pH below 2, through out by adding chemical. No rise in pH, for atleast 2 hours, is an indication of completion of Descaling work.
4. The entire liquid should be drained off after Descaling and alkaline water pH 8.5 to 10 (with caustic) should be recirculated for half an hour. Flush out the system with fresh water and brush out loosened soft scale from Boiler / Condensor tubes.

**PACKING** : 30 / 35 / 50 Kgs. HDPE Carbuoys.

**STORAGE AND HANDLING** : Store in shed. Flush with clean normal water and finally with 1% Borax in case of contact with skin. In case of eye contact flush with clean water and get medical attention. Keep the container closed when not in use. Wash out floor spillage with plenty of water. Wear safety equipments like Hand gloves, Goggles, Face shield while handling the Chemical.



## PARAS HYDROCHEM

MFRS. of Complete Range of Chemicals for Treatment of Boiler Feed water, cooling water, Resin Defouling and Descaling.

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