
Phosphate Scale Remover, Liquid

SPECIAL INHIBITORS REDUCE METAL LOSS
DISSOLVES BOTH IRON AND ZINC PHOSPHATE SCALE
RELATIVELY INACCESSIBLE PARTS ARE EASILY CLEANED
CONTROLLED FOAM LEVEL

DESCALE 92 is an inhibited acid in liquid form, used to remove water scale from the cleaner section and iron or zinc phosphate scale from the treatment zone of a power spray washer.

PHYSICAL PROPERTIES

DESCALE 92	(OB 250-003)	NEUTRALIZER™ 92 (OB 784-011)
Liquid, clear		Powder
Amber	White	
Density: 9.7 lbs/gal		

OPERATING CONDITIONS

Concentration:	15% by volume
Temperature:	Ambient to 120°F
Time:	1 - 4 hours

EQUIPMENT

During phosphate system clean-out, mild steel tanks and piping will not be adversely affected if the following instructions are followed:

TYPICAL PROCESS

Pre-cleaning requirements:

1. Remove electro-polished stainless steel plate coils from the tanks to be cleaned
Heat with live steam, if required.
2. Each spray nozzle should be tightened with a wrench before an acid clean-out
Check bleed holes in riser caps.



3. Two stages on either side of the stage should be dumped if they are not rinse tanks. They should be refilled with fresh water and charged with 5 lbs/100 gallons of **NEUTRALIZER 92** or other alkaline spray cleaner.
4. Transfer the phosphatizing solution to a storage tank, or to the last stage, after rinsing the tank thoroughly.

CLEAN OUT PROCEDURE

1. Drain tanks of stages to be cleaned. Shovel out all residue that is easily removable. Rinse the tank thoroughly with a hose.
2. Fill the tank to two-thirds the final volume with clean, cool water. Add 15% by volume of **DESCALE 92**.
3. Heat to approximately 110°- 120°F.
4. Circulate the solution 1 hour. Inspect the unit, continue circulating as required, inspecting each hour.

Warning! Avoid entering the spray tunnel. If it becomes necessary to enter the tunnel, turn off all pumps, hose down the interior thoroughly before entering.

5. When the unit is clean, the acid is either neutralized in the tank or discharged to a suitable area where it can be treated before dumping.
6. The holding tank is flushed with water to remove any residual sludge. If necessary, shovel out any accumulation of scale.
7. Fill the tank to two-thirds the operating capacity; add 5-10 lbs of **NEUTRALIZER 92** or other alkaline cleaner per 100 gallons of solution.
8. Circulate 30 minutes.
9. Dump solution and rinse tank with water.
10. Fill the tank with fresh water to 50% of the operating capacity; circulate 5-10 minutes and dump.



11. The unit should then be ready to be charged with fresh product, or the stored phosphatizing solution returned to the tank.

SOLUTION CONTROL

If the preceding directions are followed, it is not usually necessary to check the concentration of the solution. However, if desired, the concentration may be determined by the following procedure.

Materials required: 10 ml pipette
125 ml glass flask
Automatic titrating burette assembly
0.1% Methyl Orange (LIN-002)
1.0N Sodium Hydroxide (LTS-014)

Titration Procedure:

1. Pipette a 10 ml sample of the bath into a 125 ml glass flask.
2. Add 3-5 drops of 0.1% Methyl Orange (LIN-002).
3. Titrate with 1.0N Sodium Hydroxide (LTS-004) until the sample turns from red/orange to yellow.

Concentration: mls of 1.0N Sodium Hydroxide (LTS-004) required times the product factor, 1.2, equals the concentration in percent by volume of product in solution.

mls 1.0N Sodium Hydroxide (LTS-004)	% by volume
8.3	10
12.5	15
16.6	20

PRECAUTIONARY INFORMATION

Consult the product Safety Data Sheet for all safety and handling information prior to using this product.



NEUTRALIZATION GUIDELINES

To help adjust the pH of the descale solution back towards neutral, the addition of 0.53 gallons of pH Plus (091-002) will neutralize about 1 gallon **DESCALE 92**. The pH plus should be added slowly with agitation. Monitor the change in pH closely. Depending on the concentration of descale, heat may be generated during neutralization. Neutralization alone does not satisfy waste discharge or disposal rules, standards and requirements pursuant to Federal, State or Local laws. It is the responsibility of the user of Coral products to ensure compliance with the same.

WASTE DISPOSAL AFTER USE

Check your state, local and federal regulations on waste disposal to ensure compliance before disposing of any Coral product. Consult Coral if you are not sure how to treat this product for waste disposal.

STORAGE

Check your local, state and federal regulations on chemical storage to ensure compliance before receiving and storing Coral products. Generally, we recommend that users employ common sense storage precautions to protect their workers, first responders, facilities, sewers, and the environment from accidental spills and leaks of hazardous chemical products. Contact Coral for specific storage precautions not contained herein.

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