



## Product Bulletin

Better Chemistry. **Better Business.**

### Descaler SJ

**Product Code: 2541015**  
**Revised Date: 06/07/2006**

### Descaler SJ

**Descaler SJ** is a non-fluoride bearing, dry acid salt which may be used in place of sulfuric or hydrochloric acid in a preplate or metal finishing line for the removal of rust, heat scale, annealing scale, weld scale, or oxides for metal activation.

**Descaler SJ** may be used when processing ferrous metals, brass, bronze, copper, zinc die castings and aluminum alloys.

**Descaler SJ** may be used in a barrel or in a rack line.

### ADVANTAGES

1. Safer to use - eliminates the hazards and problems associated with a liquid acid.
2. No fuming - no fumes or odors are associated with this product.
3. Ease of storing - may be stored in warehouses which are maintained at any temperature.
4. Readily soluble.
5. Controlled acidic action - eliminates the danger of over pickling of the metals being processed especially when the automatic plater is shut down for a brief period because of a rack jam, etc.
6. May be used at elevated temperatures without creating corrosive fumes.
7. May be mixed with hydrochloric, sulfuric or hydrofluoric ACIDS if NECESSARY for specific jobs.

### OPERATING CONDITIONS FOR:

Ferrous metals, stainless alloys, and nickel plated surfaces.

Concentrations: 3 to 48 oz/gallon (22.5 to 360 gms/L).

Temperatures: room to 160F (71C).

Time: 1 to 3 minutes

Tanks: Rubber lined, polyethylene, PVC, polypropylene, Koroseal.

Tanks for elevated temperatures (150F to 160F) Koroseal.

Heating coils: Karbate, Graphite, chemical lead.

In immersion applications where the soils on the ferrous metals may consist of either light rust, weld scale or heat scale, the **Descaler SJ** concentrations may range from 16 to 32 oz/gallon to achieve their removal.



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### NON-FERROUS METALS

#### OPERATING CONDITIONS

For copper, copper alloys, zinc die castings, lead alloys white metals, pewter.

Concentration: 2 to 12 oz/gallon (15 to 90 gms/L).

Temperatures: Room.

Time: 15 seconds to 2 minutes.

Tanks: Rubber lined, polyethylene, PVC, polypropylene, Koroseal.

TUMBLING BARRELS: Concentrations may range from 2 to 6 ozs./gallon with time variable, depending on metal and desired results.

After either still or tumbling operations, parts should be water rinsed.

#### CONTROLS

Titration Procedure:

1. Pipette 10 mls. of sample into a 250 ml. Erlenmeyer flask.
2. Add 50 mls. of water and three drops Bromcresol green indicator.
3. Titrate with 1N sodium hydroxide solution until solution turns a blue-green color.
4. Record mls. 1N sodium hydroxide used.

factor (oz/gallon)	1.86
(gms/L)	14.0

Concentration of **Descaler SJ** = factor X mls. 1N NaOH.

#### TEST KIT METHOD

factor (oz/gallon)	0.67
(gms/L)	5.0

Use 0.5 ml. sample and fill bottle 1/4 full of water, 2 to 3 drops of indicator.

Concentration of **Descaler SJ** = factor X drops of N-72 solution.



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### CAUTION

**Descaler SJ** is an acidic product and should be handled accordingly. Avoid contact with skin and eyes. Wear protective clothing, goggles and rubber gloves. Flush exposed areas immediately with clean, cold water. In case of injury, contact a doctor immediately.

### WASTE DISPOSAL

Neutralize solutions of **Descaler SJ** to a pH OF between 6 AND 8 with either soda ash or caustic soda. In order to be completely informed on the latest regulations for your area, please contact the local authorities.

### WARRANTY

THE QUALITY OF THIS PRODUCT IS GUARANTEED ON SHIPMENT FROM OUR PLANT. IF THE USE RECOMMENDATIONS ARE FOLLOWED, DESIRED RESULTS WILL BE OBTAINED. SINCE THE USE OF OUR PRODUCTS IS BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE AS TO THE EFFECTS OF SUCH USE, OR THE RESULTS TO BE OBTAINED.