Product Bulletin
Product Name: Descaler SJ
Product Code: 2541015
Revision Date: January 9, 2024

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 pre-plate 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.

Features & Benefits

Non-fuming	Safer to work with
Powder	Will not freeze; lower shipping and inventory cost
Inhibited	Less chance of base metal attack, less rejects; higher productivity

Operating Conditions

Ferrous metals, stainless alloys, and nickel-plated surfaces

Concentrations	3 – 48 oz/Gal (22.5 – 360 g/L)
Temperatures	Room – 160°F (71°C)
Time	1 – 3 min
Tanks	Rubber lined, Polyethylene, PVC, Polypropylene, koroseal Tanks for elevated temperatures (150°F – 160°F) Koroseal
Heating coils	Karbate, graphite, chemical lead

Non-ferrous metals

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

Concentration	2 – 12 oz/Gal (15 – 90 g/L
Temperatures	Room
Time	15 sec – 2 min
Tanks	Rubber lined, Polyethylene, PVC, Polypropylene, koroseal

Tumbling barrels: Concentrations may range from 2 to 6 oz./gallon with time variable, depending on metal and desired results.

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

Titration Method

1. Pipette 10 mL of sample into a 250 mL Erlenmeyer flask.
2. Add 50 mL of water and three drops Bromocresol green indicator.
3. Titrate with 1 N Sodium Hydroxide solution until solution turns a blue-green color.
4. Record mL 1 N Sodium Hydroxide used.

Calculation

Factor (oz/Gal) 1.86
(g/L) 14.0

Concentration of Descaler SJ = factor X mL 1N NaOH.

Test Kit Method

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

Factor (oz/Gal) 0.67
(g/L) 5.0

Concentration of Descaler SJ = factor X drops 0.72n Sodium Hydroxide

Waste Disposal

Neutralize solutions of Descaler SJ to a pH of between 6.0 and 8.0 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.

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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.

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