Product Bulletin
Product Name: Acid Salt H
Product Code: 2541003
Revision Date: December 14, 2023

Acid Salt H 6

Acid Salt H-6 is a water-soluble dry acid which may be used in place of sulfuric or Hydrochloric Acids in a pre-plate line.

Acid Salt H-6 may be used as the acid in operations which process: ferrous metals, brasses, copper, copper alloys, zinc die casting, white metals, nickel plated surfaces, lead alloys, stainless steel, pewter, and nickel alloys.

Acid Salt H-6 has been formulated for immersion application or as a cathodic pickle.

Features & Benefits

Powder	Safer, no chance of hazardous liquid spills. Non-fuming* Can be stored at any temperature
“Wetted”	Faster acting; higher productivity
Controlled action	Eliminates over-pickling, less rejects; higher productivity

Operating Conditions

Immersion or cathodic Pickling

Ferrous metals, stainless alloys, and nickel-plated surfaces

Concentrations	3 – 48 oz/Gal (22.5 – 360g/L)
Temperatures	Room – 160°F (71°C)
Time	15 sec – 3 min
Current density (work):	25 – 90 amps ft^2 (2.5 – 9.0 amps/dm2)
Voltage: (Electrode to work)	2 – 8 volts

Ratio	Area 2:1

Tanks	Rubber lined, Polyethylene, PVC, Polypropylene, Koroseal
Tanks for elevated temperatures (150°F – 160°F)	Koroseal
Heating coils	Karbate, graphite, chemical lead
Ventilation	Required when used as a cathodic pickle
Electrodes	Chemical lead or carbon, type AGR

Note: when used cathodically concentrations should be maintained between 16 to 48 oz/Gal.

The life of the anodes is dependent upon the ampere hours used.
Note: when carbon electrodes are used it is desirable that they are securely fastened to the bus bar. Lead anodes because of their weight will maintain a secure contact with the bus bar.

As a rule, a lead anode's service life will surpass that of carbon anode.

It is also preferred that when carbon anodes are used that they are bagged to prevent or minimize carbon particles from spreading throughout the Acid Salt H-6 solution. A carbon anode, in time, will slowly tend to disintegrate. High current densities, solution temperature, are contributing factors to the degrading of a carbon anode, also just long service.

For immersion applications where the soils on the ferrous metals may consist of either light rust, weld scale or heat scale, the Acid Salt H-6 concentrations may range from 16 to 32 oz/Gal to achieve their removal.

Non-ferrous metals

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

Concentrations	2 – 12 oz/Gal (15 – 90 g/L)
Temperatures	Room
Time	15 sec – 2 min
Tanks	Rubber lined, Polyethylene,

	PVC, Polypropylene, Koroseal

Titration Method

1. Pipette 10 mL of sample into a 250 mL Erlenmeyer flask.
2. Add 50 mL of water and 5 to 10 drops Bromocresol Green indicator.
3. Titrate with 1 N Sodium Hydroxide solution until solution turns a blue-green color.
4. Record mL use.

Factor (oz/Gal) 2.10
(g/L) 15.8

Calculation

Concentration = Factor X MLS 1 N NAOH

Test Kit Method

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

Factor (oz/Gal) 1.3
(g/L 9.0)

Concentration = Factor X Drops of N-72 Solution.

Waste Disposal

Discharge to a disposal system. In order to be completely informed on the latest regulations for your area, please contact the local authorities.

Caution

ACID SALT H-6 is an acidic product and should be handled accordingly. Avoid skin and eye contact. Wear protective clothing, gloves and goggles when handling the product. Flush exposed areas immediately with clean, cold water. Contact doctor immediately in case of injury.

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Our People. Your Problem Solvers.

For more information on this process,
please call us at 203.756.5521 or email: techservice@hubbardhall.com

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