



Acid Salt H-6

Product Code: 2541003
Revised Date: 05/31/2006

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 preplate 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.

ADVANTAGES OF ACID SALT H-6

- * safer to use - eliminates the hazard and problems associated with liquid acids.
- * non-fuming - no fumes or odors are associated with this product or when it is used in an immersion operation.
- * ease of storing - may be stored in warehouses which are maintained at any temperature.
- * the controlled action of **Acid Salt H-6** will eliminate overpickling of the metals which is the danger associated with conventional mineral acids.
- * readily soluble.
- * activates nickel surfaces for replating or subsequent chrome plating.
- * contains a biodegradeable surfactant system which aids in cleaning, pickling, smut removal, and activation of the metal's surface.
- * may be used at room or elevated temperatures without creating corrosive fumes.

OPERATING CONDITIONS - IMMERSION OR CATHODIC PICKLING

Ferrous metals, stainless alloys, and nickel plated surfaces

Concentrations: 3 to 48 oz/gal (22.5 to 360 g/l)



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

Temperatures:	room to 160 F. (71 C.)
Time:	15 seconds to 3 minutes
Current density (work):	25 to 90 amps ft ² (2.5 to 9.0 amps/dm ²)
Voltage:	2 to 8 volts
Electrode to work	

Ratio:	area 2:1
Tanks:	rubber lined, polyethylene, PVC, polypropylene, Koroseal
Tanks for elevated Temperatures (150-160 F.):	Koroseal
Heating coils:	karbate, graphite, chemical lead
Ventilation:	required when used as a cathodic pickle.
Electrodes:	chemical lead or carbon, type agr

The life of the anodes are 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



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OPERATING CONDITIONS - IMMERSION

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

Concentration: 2 to 12 oz/gal (15 to 90 gms/l)
Temperatures: room
Time: 15 seconds to 2 minutes
Tanks: rubber lined, polyethylene, pvc, polypropylene, koroseal

CONTROLS

Titration procedure:

1. Pipette 10 mls of sample into a 250 ml Erlenmeyer flask.
2. Add 50 mls of water and 5 to 10 drops bromcresol green indicator.
3. Titrate with 1 n sodium hydroxide solution until solution turns a blue-green color.
4. Record mls use.

factor (oz/gal) 2.10
(gms/l) 15.8

Concentration = Factor X MLS 1 N NAOH

Test kit method

factor (oz/gal) 1.3
(gms/ 9.0

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

Concentration = Factor X Drops of N-72 Solution.

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.



Product Bulletin

Better Chemistry. **Better Business.**

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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.

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.