

Acid Etch AL200 Mild Acid Aluminum Etchant

Product Description

Acid Etch AL200 is formulated for use in the pretreatment cycle of aluminum alloys. It's an excellent mild etch for aluminum and aluminum alloys prior to electroless nickel, anodizing, welding or applying chemical conversion coatings. It is very uniform, controlled etching action produces a brighter, cleaner surface and has minimal effect on the dimensions of the work. Acid Etch AL200, with its excellent deep-recess penetration and its long life, cleans hard to get at places and holds soil in suspension in the bath at high capacities, which reduces or virtually eliminates smut formation on the work.

Acid Etch AL200 is especially effective on difficult to plate alloys, particularly those rich in magnesium. It is ideal for high finish aluminum surfaces because it does not appreciably change the appearance of polished aluminum.

Performance Features

- Uniform etching action produces fewer rejects and increased productivity.
- Effective for pretreating parts where close tolerance is a factor.
- Provides for maximum adhesion and complete plate coverage.
- Minimizes or eliminates smut formation on the work.
- Less dumping for economical operation.
- Contains no chelates and is non-fuming at room temperature.
- Minimizes problems associated with waste treatment.

Physical Specifications

Physical State	Liquid
Appearance	Light Grey
Water Solubility	Complete
pH	< 1

Equipment Requirements

Acid Etch AL200 solutions should be contained in plastic-lined steel or fiberglass tanks. Heating coils should be titanium, Teflon or quartz. A dam overflow and an oil trap are advisable for keeping the surface of the solution oil free. Exhaust ventilation is recommended to remove vapors generated by operation at elevated temperatures.

Technical Data Sheet

Product Make-Up

Fill tank 2/3 full with cool water. Gradually add the required amount of Acid Etch AL200 by stirring it into the bath in small amounts. Do not add a large quantity at one time. Mixing in the Acid Etch AL200 will cause the solution temperature to rise. Continue to fill gradually until final volume is reached and heat to operating temperature.

Prior to immersion in the Acid Etch AL200 solution, the work should be soak cleaned to remove light soil, buffing compounds and/or marking inks. Oils that are removed from the aluminum will rise to the top of the tank and should be skimmed off periodically.

After etching, the aluminum should be desmutted in a nitric acid type solution.

Concentration and Application Methods

Concentration

10% by volume.

Temperature

150 - 160°F

Time

1 - 3 minutes. Dependant upon water temperature, concentration, and application.

Companion Products

See Seacole's Metal Finishing product line.

Safety and Handling

Read and understand this products MSDS before handling.

Waste Treatment

Individual users should verify the nature of spent solutions to assure compliance with local, state, and federal regulations. Contact for specific details and/or further waste treatment recommendations.

Ordering Information

Acid Etch AL200 is available 5 gallon pails and 55 gallon drums.

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