

TECHNICAL DATA SHEET

ALP- 57

(SOAK CLEANER FOR ALUMINIUM)

ALP – 57 is a non-silicated, highly buffered, mildly alkaline soak cleaner for aluminium which can be used for either non-etch cleaning or mild-etch cleaning by varying concentration..

No etching of aluminium occurs at low concentration and temperature, where mild controlled etching can be achieved at higher concentration and temperature

ALP- 57 is also an excellent soak cleaner for zinc die castings and other reactive metals.

ALP – 57 is ideal for the non-etch cleaning of aluminium prior to anodizing, chromating bright dipping and electroplating.

ALP – 57 does not contain silicates so no residual siliceous films remain to cause non uniform anodized or conversion coatings, and non-fluoride containing acid dips are required to remove such films.

However, for the removal of heavy soil and buffing compounds, the work should be pre-cleaned in emulsion type of solvent type cleaner.

OPERATING CONDITONS:

FOR NON - ETCH CLEANING:

Concentration	15-45 g/ltr
Temperature	50-65°C
Time	1 – 5 minutes

FOR MILD – ETCH CLEANING:

Concentration	45-60 g/ltr
Temperature	70-80°C
Time	1 – 5 minutes

OPERATION:

Cleaning is accomplished by simple immersion of the work in ALP- 57. If the cleaner is operated as a mild – etch cleaner, a light smut will form on the surface of aluminium. The extent of smut formation will depend upon the etching time and the composition of alloy. Alloys high copper or silicon form a dark smut. Copper smuts can be removed in 66% vol. Nitric Acid, if silicon is present in addition to copper, mixtures of Nitric Acid and Acipivator 570 must be used.

EQUIPMENT:

A stainless steel, fiber glass and stainless steel heating coil are recommended.

CONTROL:

The concentration of ALP – 57 can be determined by simple titration with standard acid using phenolphthalein as an indicator.

CAUTION:

ALP – 57 is mildly alkaline in nature and contact of the salts or solution with the skin or eyes should be avoided.

WASTE TREATMENT:

ALP- 57 is a highly mild alkaline material. It is recommended that spent ALP - 57 solutions be mixed with effluent from acid solutions prior to entering the neutralization sump or tank to gain advantages of mutual adjustments of pH. Allow the precipitate that forms to settle or filter the solution prior to discharge into the sewer.

DISCLAIMER:

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