



## Confederate Chemicals Ltd

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### ACIDETCH 12 – TECHNICAL DATA SHEET

#### Description

A strongly acidic etch system for Aluminium and its alloys.

#### The Control of Substances Hazardous to Health Regulations 2002 (COSHH)

For a Safety Data Sheet on this product please contact Confederate Chemicals by telephone, or by e-mail at [lab@confederatechemicals.co.uk](mailto:lab@confederatechemicals.co.uk)

#### Instructions for use

Concentration: 15 - 30% by volume with water.  
Temperature: ambient to 50°C as required.  
Time: 1 - 20 minutes as required.

#### Control

##### TOTAL ACID:

Take a 10ml sample and add approximately 25mls water and 3 drops of Phenolphthalein indicator.

Titrate against 1.0N Sodium Hydroxide (NaOH) until the pink end point persists for 15 seconds.

The addition of 9.6 litres of ACIDETCH 12 per thousand litres of tank volume will raise the concentration by 1 point.

Pointage x 1.04 = ACIDETCH 12 concentration % v/v

##### FREE ACID:

Repeat the above procedure with the addition of approximately 25mls Potassium Oxalate (30%).

##### METAL CONTENT:

Subtract the Free Acid titre from the Total Acid titre.

When the figure reaches 4.0, the tank should be desludged and refreshed.

##### GRAVIMETRIC ETCH RATE OF ALUMINIUM:

Use aluminium process panels 150mm x 100mm x 1mm.

Immerse in Alclean NE for 10 minutes, rinse and thoroughly dry.

Weigh accurately = Initial weight.

Etch for 10 minutes in ACIDETCH 12 and reweigh.

Etch rate = weight loss x 3.33 g/m<sup>2</sup>/minute

#### Equipment

Rubber lined, some plastics and stainless steel are suitable for tanks. Pumps etc. must be acid resistant.

3.06

\\Technical Data Sheets\Acidetch12.doc