

## T Cleaner 79

### Alkaline Etch for Aluminium

**Description** A strongly alkaline powder which produces a solution in water which degreases, removes oxides, and etches aluminium and its alloys. Used on extrusion, for example, it etches satisfactorily over long periods.

- Features**
- Quickly removes oil and gives an even, low-smut etch.
  - Effective even when the bath has high levels of dissolved aluminium.
  - Can remove the need for a separate degreasing stage.
  - Can also be used to degrease galvanised steel.
  - Forms little sludge even at high dissolved aluminium contents.
  - Minimises scale formation on tanks and heating surfaces.
  - Can be used to increase the activity of mild cleaners.

**Product Code** MP0019.

**Coverage** The rate of consumption will depend on the oiliness and draining efficiency of the jiggled items and the degree of etching required. As a guide the following ranges have proved reliable:

<b>Dip:</b>	Light Etch	40 – 70 m <sup>2</sup> /kilo of T Cleaner 79
	Heavy Etch	20 – 40 m <sup>2</sup> /kilo of T Cleaner 79.

**Equipment** The T Cleaner 79 tank and water rinse tanks should ideally be made of stainless steel, or lined with polypropylene or rigid PVC. They can however be made of steel.

**Initial Fill** For every 1000 litres of bath:

1. Add approximately 750 litres of mains water and heat to 45° – 75°C.
2. Add 10-15 kilos of T Cleaner 79 and stir until dissolved.
3. Fill the bath to the operating level with mains water, stir, and bring to operating temperature.

**NOTE:** Where the T Cleaner 79 is used to degrease and remove light oxide before subsequent chromate coating, the minimum bath strength and temperature should be used.

**Application** Normally, the process sequence is:

1. T Cleaner 79 dip for 1 - 5 minutes at ambient temperature to 75°C.
2. Cold water rinse in one or two stages.
3. Hot water rinse and dry-off or proceed to subsequent desmut or chemical treatment (see **Rinsing** below).

**NOTE:** For a light etch, the bath should be operated at lower concentrations and temperatures, adjusting the time to give the required result. Heavier etching will require higher concentrations and temperatures, and will result in a more rapid build-up of aluminium in the bath.

## TECHNICAL DATA SHEET

### T Cleaner 79

#### Alkaline Etch for Aluminium

<b>Control Points</b>	T Cleaner 79 Concentration w/w%	1%	1.5%
	Pointage	7 – 8 ml	11 – 12 ml
	Bath Temperature	Ambient - 75°C	Ambient - 75°C
	Immersion Time	1 - 5 min	1 - 5 min

#### Analytic Control

##### Pointage Titration:

1. Measure 5 ml of the bath into a flask.
2. Add approximately 20 ml of demineralised water and 6 drops of Phenolphthalein Indicator.
3. Titrate with 0.1M hydrochloric acid until the colour changes from pink to colourless.

**Replenishment:** add 1.3 kg T Cleaner 79 per 1000 litres of bath for each ml the titration is below the required figure.

During use, the bath will become contaminated with dissolved aluminium, which eventually reduces its efficiency. If there is an unusual build-up of sludge, or if replenishing with T Cleaner 79 fails to restore the bath's activity, indicated by the effervescence produced when immersing new work, contact Trimite for advice.

A Test Kit (**MP0607**) containing all the necessary items and replacement chemicals is available from Trimite.

#### Rinsing

Rinse the work thoroughly in water in a tank fitted with a weir and continuously overflowed with mains water. A second mains water rinse or acid desmut and rinse is desirable before further chemical processing - the overflow from the second rinse can be used to overflow the first rinse if desired. Where the work is to be dried after cleaning, the second rinse can be warm to assist drying off. The warm rinse is not normally overflowed but should be changed regularly.

#### Drying

Normally, air drying is sufficient, but warm air may be used to increase production speeds.

#### Shelf Life

2 years from date of manufacture when correctly stored in unopened containers.

#### Storage

The product should be stored in cool, dry, frost-free conditions, in sealed containers.

#### Health & Safety

**Refer to the product's Safety Data Sheet and safety advice on the product label before use.**

#### Technical Support

For technical support in using this product, please contact:  
**e:** [birminghamtech@trimite.com](mailto:birminghamtech@trimite.com), or  
**t:** 0121 554 7000.

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