

**BONDERITE C-IC 61110**Known as N-Kleen Etch  
July 2016**PRODUCT DESCRIPTION**

BONDERITE C-IC 61110 provides the following product characteristics:

<b>Technology</b>	Cleaner
<b>Product Type</b>	Acid Cleaner
<b>Application</b>	Aluminium and its Alloys

BONDERITE C-IC 61110 is a liquid acid product, designed for the light etching of aluminium and its alloys. Its specific weight is 1.09.

**DIRECTIONS FOR USE****Preliminary Statement:**

Prior to use it is necessary to read the **Material Safety Data Sheet** for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed. Please also refer to the local safety instructions and contact Henkel for analytical support.

**Application:**

BONDERITE C-IC 61110 has been developed to be used when only a light etching on aluminium is needed.

The product is specific for the treatment before Aluminium conversion coating.

In most applications a previous step of cleaning is not needed because of the product capacity for soil and oil elimination.

When the dirty on the material make it necessary the use of one of the Henkel acid cleaners is recommended in a step before the etching bath.

The product is used normally in dip applications.

**Operating Parameters:**

Concentration	5 to 10 % (v/v)
Time	3 to 10 min
Temperature	RT (15 to 30°C)

The bath life is only depending on soil and sludge accumulation in the tank due to the use of the solution.

**Control Points:**

The concentration of BONDERITE C-IC 61110 can be determined using the next method:

Take 10 mL of product solution in a flask and dilute to 100 mL using demineralised water.

Add 3 to 4 drops of Blue Bromphenol and titrate using 1N Sodium Hydroxide until change of color to blue.

$V \text{ mL of NaOH } 1N \times 2.1 = \% \text{ (v/v) of BONDERITE C-IC 61110}$

**Materials:**

BONDERITE C-IC 61110 is an acid product and must be used in tanks lined with protective materials as PVC.

**Storage**

Recommended Storage Temperature, °C	5 to 40
Shelf-life, months (in unopened original packaging)	24

**Classification**

Please refer to the corresponding **Material Safety Data Sheets** for details on:

**Hazards identification**  
**Transport information**  
**Regulatory information**

**ADDITIONAL INFORMATION****Disclaimer****Note:**

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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