

BONDERITE C-AK 2105 CH

August 2021

PRODUCT DESCRIPTION

BONDERITE C-AK 2105 CH provides the following product characteristics:

Technology	Industrial Cleaner
Product Type	Alkaline Cleaner
Application	Metal Pre-Treatment

BONDERITE C-AK 2105 CH is a highly alkaline liquid product, free from surfactants and silicates.

It is used in immersion or spray applications.

BONDERITE C-AK 2105 CH contains special substances such as chelating agents, dispersants and stabilizers that allow the product to be used as metal cleaner for surfaces (iron/steel) or phosphate coating remover or aluminium/aluminium alloys deoxidizer/etching agent.

BONDERITE C-AK 2105 CH finely and homogeneously etches aluminium and holds up the metal dissolved solution, preventing scale formation on tank's walls or heating coils.

As a consequence, the maintenance costs can be reduced and bath life increased.

The product needs to be always combined with a suitable cleaning surfactant additive, to be suggested by our Technical Service.

Application Areas:

When used as etchant in aluminium pre-painting cycles BONDERITE C-AK 2105 CH is able to dissolve the alloying elements from aluminium surface, and therefore increase its chemical resistance to chemical corrosion.

TECHNICAL DATA

Density (20°C), g/cm³ 1.465

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:

Iron and steel:

Phosphate coating removal:

BONDERITE C-AK 2105 CH must be used in water solution at following working parameters:

Concentration, %	5 to 15
Temperature, °C	50 to 70
Time, min	1 to 10
Pressure, bar	1 to 2
(only for spray application)	

Degreasing:

BONDERITE C-AK 2105 CH must be used in water solution at following working parameters:

Concentration, %	1 to 5
Temperature, °C	50 to 70
Time, min	1 to 10
Pressure, bar	1 to 2
(only for spray application)	

Aluminium and its alloys:

BONDERITE C-AK 2105 CH must be used in water solution at following working parameters:

Concentration, %	0.5 to 1.5
Temperature, °C	50 to 70
Time, min	1 to 10
Pressure, bar	1 to 2
(only for spray application)	

Bath Make-up:

- Fill the tank with clean net water up to ¾ of its volume.
- Turn the re-circulating pumps on and warm up to working temperature.
- Add the suggested quantity of BONDERITE C-AK 2105 CH previously diluted in water.
- Bring the tank to final volume and run the re-circulating pump for 15 to 20 minutes at working temperature.
- Make the final controls.

Bath Control:

Bath control for iron and steel:

- Take a bath sample (about 100 mL) and cool it down to about 20°C.
- Transfer 10 mL into a 250 mL flask, add 50 mL of distilled water and some drops of phenolphthalein

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Reference 0.1