DeaneCo CCC

CHEMICAL SURFACE PROTECTION FOR ALUMINUM

DEANCO CCC is a chemical protection process for aluminum and its alloys in two parts (Part A & Part B), which can be used by immersion. It forms a non-metallic, golden yellow chemical conversion on the surface of the treated metal, protecting the metal against corrosion and providing an excellent bonding base for paint.

BENEFITS

- Two-part product can easily be adjusted
- Can easily be controlled by titration
- Can be used at room temperature

PHYSICAL PROPERTIES

Appearance	Powder	Solubility	Water soluble	Flammability	Non flammable
Colour	Orange	pH	2-3	Density	N/A
Odor	Odorless	Flash Point	N/A		

AVAILABLE FORMATS

20L	20DECCAP	205L	20DECCAD	1000L	20DECCAT

LEGISLATION

WHMIS Regulated

SAFETY & HANDLING

Dispose of container and its contents in compliance with all applicable regulations.

Refer to safety data sheet for additional information.

DEANECO CHEMICAL SOLUTIONS 190 Oneida, Pointe-Claire, Qc Canada H9R 1A8 • Tel. 514.697.7760 • 800.363.7760 • info@deaneco.ca

USE PROCEDURES

PREPARATION OF THE DeaneCo CCC BATH: CONCENTRATIONS: Dissolve DeaneCo CCC in the following proportions in good quality water, preferably distilled.
TOTAL CONCENTRATION 9 Kg / 1000 Liters; PART A 3 Kg / 1000 L, PART B 6 Kg / 1000 L. After dilution, the pH must be between 1.5 and 2.1 and must be maintained thereafter levels. When an adjustment is required, the pH should be maintained using nitric acid, if it's too high and with ammonium hydroxide if it is too low. Proceed by very moderate additions to avoid exceeding the limits again.

1- DEGREASING: Before any treatment with DeaneCo CCC, it is necessary that the parts to be treated are perfectly degreased. It's a priority to obtain perfect wettability of the surface before treatment. Use product Cee-Bee 300LFG at 10% concentration in water at 55°C provides proper degreasing to obtain clean surface.
2- IMMERSION APPLICATION: Immersion times are generally 15 seconds to 10 minutes. The maximum time can vary according to the nature of the alloy, the temperature and the aging of the bath. The maximum of corrosion resistance is obtained in the highest pH zone indicated above. The operating temperature can vary from 20°C to 35°C.
3- RINSING: After treatment, rinse the parts with clear cold or lukewarm water. The rinse water must be kept clean by continuous overflow and must be replaced frequently.
4- Drying: Drying can be carried out in the open air or in an oven. Fresh coatings may however become powdery if the temperature is above 90°C.

CONTROL OF THE DeaneCo CCC SOLUTION:
1- Pipette 10 ml of the solution
2- Add 50 ml of distilled water, 10 ml of 25% sulfuric acid and 25 ml of iodide
25% potassium.
3- Leave to stand in the dark for 10 minutes.
4- Titrate with 0.1N sodium thiosulfate until slightly orange in color.
5- Add 5-10 drops of starch indicator. The solution turns dark blue.
6- Continue the titration until the blue color disappears.
7- Calculation: number of ml of sodium thiosulfate 0.1N X 0.50 = g / L of DEANCO CC

REMARKS ON THE PROBLEMS THAT MAY ARISE:
1- Formation of impurities that can be removed with a cloth:
i- pH of the solution too low.
ii- Insufficient deoxidation
iii- Application temperature too high
iv- Application time too long

2- Too light coating:
i- pH of the solution too high
ii- Solution temperature too low
iii- Immersion time too short
iv- Concentration too low
v- Incomplete cleaning or deoxidation
3- Marbling:
i- Insufficient rinsing after each operation
ii- Insufficient deoxidation
iii- Incomplete degreasing
iv- The weld surfaces respond differently to treatment than
surfaces that have not been exposed to welding. An increase in
concentration of deoxidation solution is usually required
to treat welded parts at the same time as non-welded parts.
4- Dull, powdery or brittle coatings:
i- Temperature too high
ii- Processing time too long.

CONSULT WITH YOUR DEANECO REPRESENTATIVE FOR PRODUCT'S APPLICATION AND OPTIMAL USE.

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