

# COMOROX AL

## ETCHING AND PASSIVATING AGENT FOR ALUMINIUM

**Approvals: DASSAULT AVIATION, FRENCH AIR FORCE (STPA)**

**Complies with Norm AIR 8104**

Etching and deoxidizing compound for aluminium and its alloys as well as steel. Passivating agent and fixing base before paintings on steel, iron, copper and aluminium.

### DIRECTIONS FOR USE

Check the good resistance of the parts in the bath before beginning the treatment. Operate a preliminary degreasing in the event of major stains.

By immersion: for etching and satining of aluminium:

- Concentration : 5 to 50 %
- Temperature : 20 to 50° C (68 to 122° F)
- Contact time : 5 to 10 minutes
- Optional rinsing with cold running water - dry afterwards.

By hand: for deoxidising aluminium:

- Application with a brush, pulverization (antiacid material)
- Concentration : 50 %
- Let act from 15 to 30 minutes

### TECHNICAL CHARACTERISTICS

. COMPOSITION .....	Phosphoric acid, surfactants in hydroalcoholic solution.
. Appearance .....	liquid
. Density at 20° C (68° F).....	1.20
. pH to 25 % .....	1.20

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## STORAGE AND USE SAFETY MEASURES

Avoid contact with skin and wear safety gloves and eyes protectors.  
In the event of accidental projection, rinse abundantly with water with 1 % of bicarbonate of soda.

Please read the safety data sheet for further information.

## PROPORTIONING OF COMOROX AL BATH

(concentration of use 25 to 50 %)

### Principle

Acid determination by a solution of sodium hydroxide in the presence of green of bromocresol.

### Material

- 1 beaker of 250 ml - 1 pipette of 10 ml - 1 glass gauge of 25 ml

### Reagents

- Solution of sodium hydroxide 1M
- Solution of green of bromocresol at 0.02 %

### Procedure

- Take 10 ml from the filtered bath by means of the pipette.
- Introduce them into a beaker of 250 ml.
- Add approximately 100 ml of demineralised water and some drops of green of bromocresol.
- Measure out by means of the solution of sodium hydroxide 1M contained in the glass gauge, until the indicator turns from yellow to green.
- Let V be the number of ml of solution of sodium hydroxide 1 M poured.
- The concentration C expressed in percent in volume of COMOROX Al is equal to:

$$C \% = 2.33 \times V$$

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## **Proportioning of aluminium in the bath of COMOROX AL**

### **Principle**

During the acid determination, the aluminium being present precipitates in the form of aluminium phosphate. The same proportioning in the presence of potassium fluoride is to be carried out to prevent the precipitation of aluminium. The difference between these two acidities is proportional to the aluminium content.

### **Material**

- 1 beaker of 250 ml - 1 pipette of 10 ml - 1 glass gauge of 25 ml

### **Reagents**

- solution of sodium hydroxide 1M
- solution of green of bromocresol at 0,02 %
- pure potassium fluoride

### **Procedure**

- Take 10 ml from the filtered bath by means of the pipette.
- Introduce them into a beaker of 250 ml.
- Add about 100 ml of demineralized water, approximately 1g of potassium fluoride and some drops of green of bromocresol.
- Measure out by means of the solution of sodium hydroxide 1M contained in the glass gauge, until the indicator turns from yellow to green.
- Let X be the number of ml of solution of sodium hydroxide 1M poured.
- The concentration A expressed in grams per liter of aluminium is equal to:

$$A \text{ (g/l)} = (V - X) \cdot 2.7$$

- V being the number of ml of solution of sodium hydroxide 1M poured under the same conditions, without potassium fluoride addition.

**This technical data sheet replaces and cancels the previous one.**

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