

BC-18 alloy electrolytic oil powder

Product Code No. 11018

Description:

BC-18 is a white solid fine-grained powder, phosphate-free, alkaline and water-soluble anode electrolytic degreasing agent, suitable for die-casting zinc alloy, copper, brass, bronze, (forging or casting) and other copper alloys.

The advantages:

1. Phosphate-free degreasing agent , will not cause oxidation of the discharged water.
2. The surfactant contained is easily decomposed by organisms.
3. Excellent effect when operating at low temperature, 43-54°C
4. Very high tolerance to hard water.
5. It is easy to wash, and the amount of foaming is small, so that the substrate will not appear cloudy.
6. Excellent activation over a wide range of current densities., and the operation and management are easy.
7. Generally used for secondary degreasing electrolysis
8. Generally applicable to various metal substrates that do not contain ferrous metals.

BC-18 is mainly used for electrolytic degreasing without ferrous metals. It will not cause low pH, corrosion of die-cast zinc alloys, or scorching of brass and copper alloys in high current density areas.

If you need to extend the electrolysis time during operation, please note that the operating temperature must be kept in a lower temperature range.

Operating conditions:

Concentration	45-75 g/L
Temperature	43-54°C
Time	15-120 seconds
Recommended Polarity	Reverse clean (anodic)
Equipment	Steel tank and heating coil
Current density	die-cast zinc alloy 1-3 amps /dm ² Cast brass 2-4 amps /dm ²

If the electrolytic degreasing substrate is a die-cast zinc alloy, the operating temperature must be maintained at 43-48°C

Make-up Procedure:

1. Drain the waste liquid and clean the sink
2. Add soft water to 3/4 water level
3. Heat to 65°C, easy to dissolve
4. Add BC-18 slowly and stir to dissolve
5. After the medicine is dissolved, fill the water level
6. It can be used after cooling down to 45°C

Typical operation process of electrolytic degreasing (zinc alloy, brass, copper)

1. One heating degreasing, BC-16 dewaxing powder
2. Wash in water or immerse in low concentration BC-16 60-65°C
3. Spray degreasing
4. Water wash
5. Reheat degreasing, BC-17 alloy degreasing powder.
6. Water washing or low-concentration BC-18 alloy electrolysis oil powder immersion
7. Anode electrolytic degreasing, BC-18 alloy electrolytic degreasing oil powder 45-60 g/L, 43-54°C, 6V
8. Water wash
9. Acid activation
10. Water wash
11. Water wash
12. Base copper

Analytical method:

1. Take 10 ml sample from the tank in a 250 ml Erlenmeyer flask, and then dilute it with 50 ml pure water.
2. Add 3-5 drops of phenolphthalein indicator
3. Titrate with 0.5N HCl solution until the light red disappears as the end point.
4. Record the titration ml
5. Calculation:

$$\text{mL } 0.5\text{N HCl} \times 3.97 = \text{g/L BC-18 alloy electrolytic oil powder}$$

Problem countermeasures:

1. It is very important to determine the working electrode (positive and negative electrode). The wrong electrode selection will cause technical problems.
2. There are several factors that cause scorching:
 - a. Temperature or concentration is too low

- b. The voltage is too high
 - c. Current density is too high
 - d. Metal substrate is not suitable for electrolytic degreasing
3. When adjusting the current density, if the current density is found to be too low, the electrode may be polarized, so the cathode plate and electrode lead must be cleaned regularly.

Precautions:

BC-18 alloy electrolytic oil powder is a kind of dry alkaline substance, which must be separated from acidic substances during storage. Please wear goggles or protective clothing when adding medicine. If it comes in contact with the skin, rinse immediately with plenty of water and send to a doctor for treatment immediately.

Wastewater treatment:

BC-18 alloy electrolytic oil powder is alkaline, does not contain phosphate, and is easily biodegraded. The waste liquid can be discharged when the pH value is 6-8 after neutralization with acid.

Ordering information:

product	product number	Packaging
BC-18 alloy electrolytic oil powder	11018	25kg/bag