

Ultrex FA 32

Ultrex FA 32 is a powdered, high detergency, non-etching cleaner for all aluminum alloys. Ultrex FA 32 is a carefully balanced formulation of detergents, dispersants and emulsifiers properly inhibited to give maximum cleaning without the etching of the aluminum. Ultrex FA 32 can be used to remove light oil, soils, ink markings and for all other cleaning operations prior to anodizing, welding or other surface finishing.

Features & Benefits

Powder high detergency cleaner	Won't etch aluminum alloys
Balanced formulation	Maximum cleaning

Operating Conditions

Concentration	4 – 12 oz/Gal
Temperature	120°F – 180°F
Equipment	Mild steel tank; heated by steel steam coils, steel immersion heaters or by direct gas firing. Solution agitation by means of a stirrer or pump or work agitation will increase the rate of cleaning. Air agitation it to be avoided, as this will produce excessive foaming.
Control	Concentration of cleaner can be determined by titrating its alkalinity with any standard acid or by titration with a kit supplied with the cleaner.

Titration Method

1. Pipette 10 mL sample of the cleaner bath into a clean 250 mL Erlenmeyer flask. Add 50 mL of distilled or deionized water.
2. Add 2 to 3 drops of Methyl Orange indicator. Developing a yellow colored solution.
3. Titrate with Sulfuric Acid or Hydrochloric Acid solution of known normality. (0.1 Normal is suggested). Endpoint is obtained when the yellow solution color just turns pink.
4. Record mL used.

Calculation

$$\text{Concentration (oz/Gal)} = (\text{mL of Acid Titrant}) \times (\text{Normality}) \times (2.597)$$

Example:

$$\text{Concentration (4.0 oz/Gal)} = (15.4 \text{ mL}) \times (0.1 \text{ N}) \times (2.597)$$

Caution

Ultrex FA 32 is a mildly alkaline-based material. Contact with skin and eyes should be avoided. In case of contact with skin, affected area should be thoroughly flushed with water; for eyes, flush with water for fifteen (15) minutes and obtain medical attention.

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For more information on this process,
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