



SURCLEAN
Electronic Production Materials



TECHNICAL DATA SHEET

Surclean - Brightflow PT-10LF Pure Tin Solder Paint

PRODUCT APPLICATION

Surclean PT-10LF Solder Paint is a homogenous mixture of fine powdered Tin suspended in a highly active Zinc Chloride cream base. The cream base contains suspension agents that helps to prevent the metal from settling out, and avoids excessive stirring. PT-10LF is formulated to allow rapid joining and tinning of a wide variety of solderable metals, including mild steel. It is ideal for applications where the use of Lead solder alloys is prohibited. The post solder residues are easily removed with water.

CHARACTERISTICS

Convenience & simplicity - separate solder and flux is eliminated, and area of wetting is accurately controlled as paint is applied exactly where required. This also economizes the use of material.

Expensive Tinning equipment is not required - If required larger areas of metal can be rapidly tinned.

Suitable for Mass Production - The soldering process can be mechanised for batch or series production. The process can be de-skilled as the flux to solder metal ratio is pre-mixed.

APPLICATION METHODS

Surclean PT-10LF is painted onto the metal covering any joints and over the area required to be tinned. Heat is applied until the paint becomes molten. The melting point of PT-10LF is 221 degrees C, and the processing temperature is recommended to be in the range 260 - 290 degrees C. If bright tinning an area, wiping the molten solder with a clean dry cloth will impart a brilliant hot tinned surface finish. Degreasing is not required. PT-10LF will chemically mitigate minor surface contaminations during the tinning process, to give a highly solderable surface for subsequent soldering assembly operations. PT-10LF should be applied by brush or swab to a cold workpiece surface. It should be stirred before use to ensure complete dispersion of the metal alloy in the base. Residues are corrosive if left, and must be removed with water, or a 1% Hydrochloric Acid solution, followed by a final rinse, preferably with warm water.

PACKAGING AVAILABILITY

PT-10LF is packaged into plastic screw top containers. Standard pack sizes are 250 gm, 500 gm, 1kg, 2kgs and 5 kgs. Larger pack sizes are available subject to availability.

PHYSICAL & CHEMICAL PROPERTIES

Appearance: Viscous cream gel.
Odour: None.

Colour: White - opaque.
Water solubility: 100%

PH Value: 1 (Acidic)

HEALTH & SAFETY

Surclean PT-10LF should be treated as a corrosive material. Take precautions to minimize risk of Splashing or spillage. Use suitable eye and skin personal protection equipment. Read the application notes in this technical data sheet, and refer to the safety data sheet for the product.