

Technical Bulletin

TSC Blackband Flux

DESCRIPTION

TSC BlackBand is a water based flux containing zinc chloride and other salts, which provide an extremely effective fluxing reaction at soldering temperatures. Black Band is commonly used for soldering copper and its alloys, mild steel and iron in a wide variety of industrial soldering applications (including copper-brass heat exchanger manufacture).

FEATURES & BENEFITS

- High activity flux – effective soft soldering of copper, brass, mild steel and iron.
- Water soluble flux residues – easy post soldering cleaning.
- Ideal for use with various solder alloy grades, including a wide variety of tin-lead and lead free soft solders.

APPLICATION METHODS

For most applications, the flux can be applied by brushing, this being the most convenient method of controlling where the flux is placed. Alternatively, Black Band can be sprayed on, or the work-piece can be fully or partially immersed in the flux prior to soldering. When heat is introduced the flux will begin to work effectively so that when the solder is applied, the joint can be formed.

Zinc chloride containing fluxes are corrosive and the post soldering flux residues should normally be removed as soon as possible after cooling of the joint assembly. This can usually be achieved by washing with water, preferably warm. For the most through flux residue removal, initial cleaning should be in dilute hydrochloric acid (2-5%) or citric acid, followed by a final wash in clean water.

TECHNICAL SPECIFICATIONS

	Specifications
Appearance	Clear colourless to pale yellow liquid
Flash Point	Not applicable
Solubility in water	Easily soluble in hot and cold water
Odour	Characteristic acidic
Specific Gravity	1.28 @ 20 °C

STORAGE

TSC Blackband Flux is supplied in 125ml, 250ml, 1L, 10L and 200L containers. Liquid flux should be stored in dry, well-ventilated area, away from direct heat and flame. Shelf life is 36 Months from date of manufacture.

HEALTH & SAFETY

Contains ingredients classified as hazardous. Use with adequate ventilation and proper personal protective equipment. Refer to the accompanying Safety Data Sheet for any specific emergency information. Do not dispose of any hazardous materials in non-approved containers.

The information contained herein is based on data considered accurate and is offered at no charge. No warranty is expressed or implied regarding the accuracy of this data. Liability is expressly disclaimed for any loss or injury arising out of the use of this information or the use of the materials designated.

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