

# ECOFREC™ TF48



## No-clean tacky flux for ball attach and rework

### FEATURES

**ECOFREC™ TF48** is a tacky flux paste designed for **soldering and rework** of traditional components and SMDs.

**ECOFREC™ TF48** is particularly efficient for lead and lead-free components balling using spheres interconnection and for BGA repair.

### SPECIFICATIONS

Colour		amber
Odour		very low
Solubility	in water In alcohol	not soluble soluble
Classification according ANSI/J-STD-004		RELO
Halogen content		No halogen
Density at 20°C		1
Viscosity (Pa.s at 20°C) <i>(Measured on BROOKFIELD RVT viscometer with Mobile F HELIPATH system, at 5 rpm).</i>		350-550

### CHARACTERISTICS

**ECOFREC™ TF48** is a high viscosity tacky flux made of a complex blending of resins, activators and solvents. After soldering, flux residues remaining on the PCB are chemically inert and not liable to corrosion. PCB cleaning is thus unnecessary.

FUNCTIONAL TESTS	RESULTS	PROCEDURES
Surface Insulation Resistance After 7 days 85°C / 85% RH-50V 25°C – 65% RH	pass > 10 <sup>10</sup> > 10 <sup>12</sup>	ANSI/J-STD-004
Bono test	pass	INVENTEC MO.SB.10029

## PACKAGING

Syringe	10 g or 30 g
Plastic jar	100 g or 500 g
Cartridge	300 g

## STORAGE & SHELF LIFE

ECOFREC™ TF48 must be stored in a cool and ventilated area between 5° and 30°C. Shelf life is one year.

For an optimal preservation, store cartridges and syringes in vertical position, tip downwards.

## USE CONDITIONS

ECOFREC™ TF48 can be applied by dispensing or screen/stencil printing.

The sticky properties of ECOFREC™ TF48 ensure that components are kept in position until the alloy is reflowed. A variety of heating methods may be used to produce the solder joint with ECOFREC™ TF48 ; these include soldering irons, hot gas and hot bar devices, IR or convection oven or vapour phase.

Printing adhesive properties can be improved after 30-60 minutes storage at ambient temperature or after heating at 50-60°C during few minutes.

## HSE

During soldering operations, vapours should be collected by an efficient exhaust system.

Please refer to MSDS before use.

No issues when used as recommended.

***Although the conformity to ROHS 2002/95CE applies to EQUIPMENT put on the market and not to a component in particular, we warranty that this product contains less than 0.1% of mercury, lead, chromium VI, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE) and less than 0.01% for the cadmium, in accordance with the decision of The European Commission dated 18/08/2005, fixing the maximal concentration values.***

*This data is based on information that the manufacturer believe to be reliable and offered in good faith. In no event will INVENTEC be responsible for special, incidental and consequential damages. The user is responsible to the Administrative Authorities (regulations for the protection of the Environment) for the conformity of his installation.*

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