

# PRODUCT DATA SHEET



## ECOFREE 301

### VOC Free, No-Clean, Low Residue Flux

#### DEFINITION

**ECOFREE 301** is a water based no-clean flux, free of organic solvents, formulated to meet the future volatile organic compound (VOC) emission regulations. It is a flux developed for wave soldering of through hole or mixed technology and SMT assemblies, with a very low dry extract allowing the elimination of the cleaning step of the PCB after soldering.

Its activation system, without halide (Fluoride, Chloride, Bromide) and no amine is eliminated after wave soldering.

#### SPECIFICATIONS

◆ Appearance	colorless liquid
◆ Specific gravity 20°C	1
◆ Solid content 3 H - 105°C	1,9 %
◆ Halid	zero
◆ Acid index, (mg KOH/g)	33
◆ Flash point	none

#### FUNCTIONAL TESTS

#### NORMS

SIR	Passed (96 hours)	BELLCORE TRW 000078
SIR	Passed (see curve below)	IPC TP 650

#### USE

**ECOFREE 301** has to be applied by spray.

Topside preheat temperature of 130°C are recommended for the elimination of water and non volatile solvents before entering wave soldering.

The temperature level obtained after preheat and solderwave will allow to eliminate all the residue and therefore to have a good cosmetic aspect of the PCB.

Unlike conventional fluxes, **ECOFREE 301** does not require acid index and density control.



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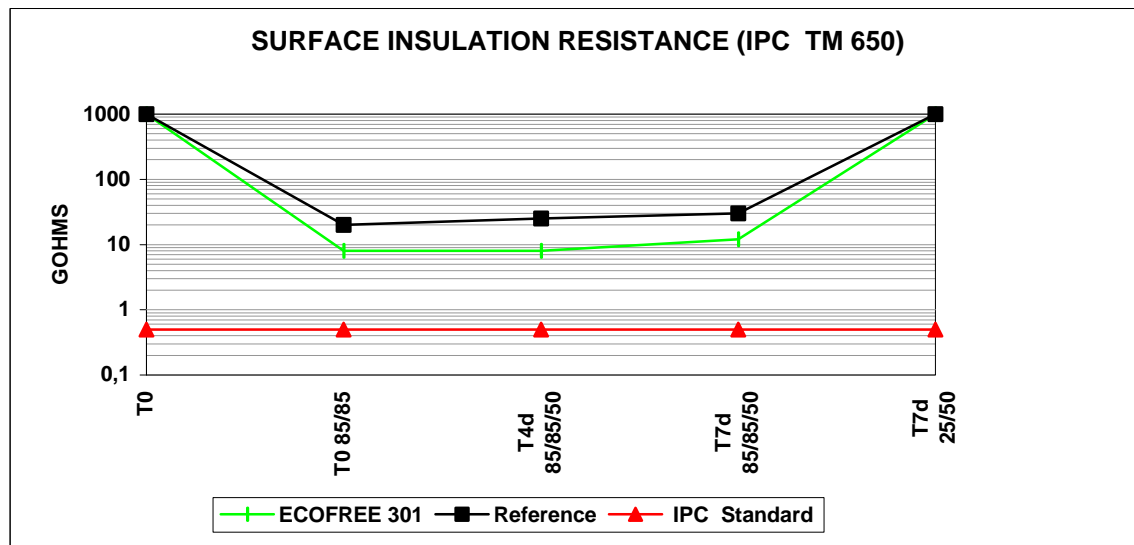
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## HYGIENE - SAFETY

Use in well-ventilated areas. Safety glasses and gloves should be worn when handling the flux.

## PACKAGING AND STORAGE

- ◆ 5 et 20 l plastic drums.

Avoid storage temperature < 0°C.

**ECOFREE 301** must be stored at the temperature of the production plant (20°C) for 12 HRS before use.

*The information given herein is offered as a possible helpful suggestion only. PROMOSOL assumes no liability whatsoever arising out of its use by others.*

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