

Test certificate for fluxes (wave soldering)

Producer :JL Goslar
Product name : ELFLUX 1000

date : 21.12.2001
tester : Meier
result: acceptable

Remark:

To test the insulation resistance and the electrical corrosion a test PCB (copper surface) with 0,2 mm gap and 0,4 mm track is prepared with 0,05 ml flux and pretreated in a climatic chamber at 100°C for 5 minutes.

The recommendation is from the EU-Project with the title Development of Surface Insulation Resistance Measurements for Electronics Assemblies Final Report Nov. 2000 Contract Number SMT4-CR97-2155.

After the test procedure in accordance to point 2 for 168 h an insulation resistance of at least 100 M Ω is demanded. No growth of dendrites is allowed accordance to point 3.

All water should be evaporated before the PCB reaches the solder wave.

| Prüfung | Ergebnis |
|--|---|
| 1. Solid content in % | 2 |
| 2. Insulation resistance R in Ω , after 16 h and after 168 h of storage in test climate 40°C / 93% r.h. with 5 V DC Bias =5 V Measuring voltage = 5 V | *) R ref : $\geq 1,0 E+10$ **) R Flux : 1,1 E+08 |
| 3. Electrolytical corrosion effect after 168 h of storage in test climate Prüfklima 40°C / 93 % r. h. with 5 V DC | passed (no dendrites) |

*) Reference value after 16 h on the test board which was not prepared with flux.

**) Minimum value after 168 h for the test board prepared with 0.05 ml of flux

Note : for *) and **) the same testboard was used.

The flux will be recommended if all requirements are fulfilled