

Infosheet

DSC 39-815 (F 815 SN5-90S5)

No-Clean Solder Paste

Printing of Exceptionally Fine Geometries

1. Description

DSC 39-815 comprises a ready-to-use homogeneous mixture with low odour characteristics, consisting of metal powder, binders, solvents, fluxes and thixotropic agents.

This paste provides for excellent wetting and is capable of printing of fine geometries and small pitches.

Key Benefits

- Waferbumping with solderpastes
- No-Clean residues
- Excellent wetting

2. Product indication

Indication: F815Sn5-90S5

Alloy: Sn5/Pb95

3. Physical properties:

Metal powder:

Particle size: Type 5 = 15 –28 µm (325/+500 mesh)

Shape: Spherical

Melting Point: Sn5/Pb95 = 308-312°C

Composition: Sn5/Pb95 = F815Sn5-90S5.

Density: Sn5/Pb95 = 11 g/cc

Solder Paste:

Metal Content: Sn5/Pb95 = 90%

Viscosity Range: 40-100 Pas
Physica CSS = 10 1/s

Density: Sn5/Pb95 = 5 g/cc

4. Performance Parameters

Stencil thickness: 2 to 4 mil = 50 to 100 µm

Minimum Pitch: n/a

5. Reflow Parameters (recommendation)

- For optimum results the paste should be reflowed at a peak temperature of 30 to 50°C above the liquidous temperature of the alloy
- Reflow should be done under an inert atmosphere.
- Gradient : 0,5-1,0 K/sec

6. Residue properties

Flux Activity:	According to ANSI- J-STD-004	Class L0
	DIN EN 29454-1	1.2.2.C

7. Recommended Processing Guidelines

- Ensure that the paste has reached room temperature before opening, to prevent condensation.
- Stir well prior to use.
- Print through a stencil
- If the printing interval exceeds 1 hour, remove the paste from stencil/screen.
- Cleaning of wet paste:
With diverse solvent and water based cleaners, like Zestron products.
- The flux residues need to be cleaned with Zestron and Vigon cleaning materials.

8. Storage

- Store the solder paste in tightly-sealed jars and avoid exposure to sunlight and high humidity.
- In Jars:
- Min. 3 month in a refrigerator at 2-10°C
 - Storing during transport has to be lower than 10°C.

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