Heraeus

Technical Data Sheet Solder Paste F381 Series

Description	The F 381 series of solder pastes comprise a ready-to-use homogeneous mixture with low odour characteristics, consisting of metal powder, binders, solvents, fluxes and thixotropic agents. Equipped with a covalently-bonded halogen flux chemistry, the pastes confer outstanding wetting that is ideal for applications requiring difficult-to-solder surfaces.						
Key Benefits	 Outstanding wetting Excellent printing properti Very high green strength 	es		Compliant Products			
Product Code and Alloy			Type Particle Size 20 - 38 μm S	der PropertiesAlloyMelting PointSn63/Pb37183°C62/Pb36/Ag2179°C	Stencil Printing Screet	lication n Printing Dispensing ✓ □ ✓ □	
Flux Activity	No Clean ✔	Water Washable	ISO 9454-1:1990 [DIN EN 29454-1:1993] 1.2.2.C	J-STD-004A:2004 REM1	Bellcore GR-78-Core [Issue 1:1997] not tested	Siemens Norm [SN 59650:1998] not tested	
Halogen Content	Halogen Free Halogen Free-Tolerances from IEC 61249-2-21: CI or Br <900ppm, total <1500ppm; measured according to BS EN 145			Halogen Zero - No Halogen added in the Flux:			
Paste Conditioning	Remove paste from fridge: Before opening the package leave paste 2 hours at room temperature so that paste warms up. Do not open jar/cartridge while paste is cold to prevent condensation of moisture on the paste - this causes defects, e.g. solder balling etc. Do not heat the paste. Before use of paste jar: To obtain uniform, stable viscosity stir paste for 1 to 2 min, using stainless steel or chemically resistive plastic spatula.						
Reflow	Temperature profile adjustment according IPC/JEDEC J-STD-020.						
Cleaning	After reflow flux residues may remain on the circuit and do not need to be washed. For cleaning of wet paste or if desired for cleaning of flux residues Zestron and Vigon cleaners can be used – see separate cleaning recommendations.						
Storage	Store the solder paste in tightly-sealed containers and avoid exposure to sunlight and high humidity. Max expiration date : please refer to the expiry date on the label of the packaged product. Storage conditions in the refrigerator at 2-10°C.						
Contact	www.heraeus-contactmater	rials.com		Version TDS_Solder	Paste F381 Series_18.March 2015		

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