

Trade Name: SJM-03W NH(IMT)

1. Company Address: Almit GmbH Ph.: +49 6061 96925-0
 Unterer Hammer 3 Fax: +49 6061 96925-18
 (D) 64720 Michelstadt - near Frankfurt

2. Validity: This specification is specified for:
 Almit-Solder-Paste SJM-03W NH(IMT)
 Delivered by Almit GmbH to: _____

3. Diameter & Allowance:

| | | | | | |
|-----------|----------|------|------|-------|---|
| Weight | 500g | 500g | 700g | 1000g | 0 |
| Allowance | -0, +10g | | | | |

4. Deliverable Reel Size:

| | | | |
|------------|------------|-------------|------------------|
| Metal Name | Solidus °C | Liquidus °C | Specific Gravity |
| SJM-03 | 210 | 225 | 7.4 |

5. Physical Properties:

| Test | Characteristics | Test Methods |
|----------------------------|---------------------|---------------------|
| Metal Content | 88.5 ± 1.0 | IPC-TM-650 2.2.20 |
| Silver Chromate | pass | IPC-TM-650 2.3.33 |
| Copper Mirror Test | pass | IPC-TM-650 2.3.32 |
| SIR (85°C, 85%, 168hr) (Ω) | ≥ 1x10 ⁸ | IPC-TM-650 2.6.3.3 |
| Corrosion Test | pass | IPC-TM-650 2.6.15 |
| Flux materials composition | RO | J-STD 004 1.2 |
| Quantitative Halide | LO < 0.0% | IPC-TM-650 2.3.35 |
| Fluorides By Spot Test | pass | IPC-TM-650 2.6.35.1 |

6. Characterisitcs:

| Composition | Components | | | | | | |
|-------------|------------|-----|-----|--|-----|-----|--|
| | Sn | Ag | Cu | | | Bi | |
| Standard | Rest | 0.3 | 0.7 | | | 2.0 | |
| Composition | Components | | | | | | |
| | | | | | Fe | | |
| Standard | | | | | 0.1 | | |

7. Solder Powder Size & Distribuon:

% of Sample by Weight – Nominal Size

| Type | not larger than | less than 1% larger than | at least 80% between | at most 10% less than |
|------------|-----------------|--------------------------|----------------------|-----------------------|
| Type 4 (W) | 40 Microns | 38 Microns | 20 - 38 Microns | 20 Microns |

8. Lot-Size: A single lot contains 500kg which is the amount of one melting.

9. Quality and Inspecon:

Inspecon items are applied to each lot as follows:

| Test No. | Inspection Item | Contents | Standard | | |
|----------|--------------------|---|--|-------|--------|
| 1 | Appearance | Color | Comparison with Limit Specimen | | |
| 2 | Weight | Net Weight | -0 ; +10 | (g) | |
| 3 | Solder Powder Size | 20 - 38 μ m (W) | 94 \leq | (wt%) | |
| 4 | Metal Composition | Sn | Rest | (wt%) | |
| | | Ag | 0.3 \pm 0.1 | (wt%) | |
| | | Bi | 2.0 \pm 0.2 | (wt%) | |
| | | | | (wt%) | |
| 5 | Characteristics | Flux Content | 11.5 \pm 0.5 | (wt%) | |
| 6 | | Solder Balling Test | Comparison with Limit Specimen | | |
| 7 | | Viscosity (Spiral type, 10rpm, 25°C) (IPC-650-2.4.34.3) | 210000 \pm 30000 210 \pm 30 | (cps) | (Pa•s) |
| 8 | | Solderability on Cu-Plate | Comparison with Limit Specimen | | |
| 9 | | Dryness | Chalk powder should be easily removed from each test specimen. | | |

*Straight lines of solder paste are printed on a JIS-2 type substrate then reflowed. The reflowed solder is examined with a stereo microscope at 30X magnification. No more than 2 solder balls larger than one fifth the size of the pattern gap is allowed per gap.

10. Packing:

| Individual Package | | Outer Package | |
|--------------------|---------------------|---------------|---------------|
| Unit | Packing | Unit | Packing |
| 500g | Polyethylene bottle | 10kg ; 20kg | Cardboard Box |
| 500g | 6 oz Cartridge | 10kg | |
| 700g | Proflow Cassette | 7kg ; 14kg | |
| 1000g | 12 oz Cartridge | 15kg | |
| | | | |

11. Identification:

| | Polyethylene bottle | Cardboard |
|--------------------|---------------------------------------|------------------|
| Name | Almit-Solder-Paste SJM-03W NH(IMT) | same as the left |
| Lot Nr. | (Ex.) 120119-9 | dto. |
| Solder Powder Size | 20 - 38 μ m | dto. |
| Date of Mfg. | (Ex.) 19.01.2012 | dto. |
| Net Weight | (Ex.) 500g | dto. |
| Maker | Nihon Almit Co. Ltd. | dto. |

10. Maker Address:

Nihon Almit Co. Ltd.
Almit Bldg., 2-14-2 Yayoicho, Nakano-ku, Tokyo, Japan

11. In case of changing this specification it should be accepted by:

Signature_____ Date_____

12. This product is manufactured, using all guaranteed materials according to the legal law regulations.

13. Shelf Life:

Up to two (2) years from the manufactured date (lot number).