

**Trade Name: NHR-TH LFM-48 S**

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-Wire NHR-TH LFM-48 S  
 Delivered by Almit GmbH to: \_\_\_\_\_

**3. Diameter & Allowance:**

| Diameter (mm) |     |     |      |     |      |     |     |     |     |     |     |
|---------------|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-----|
| 0.15          | 0.2 | 0.3 | 0.38 | 0.5 | 0.65 | 0.8 | 1.0 | 1.2 | 1.6 | 2.0 | 2.7 |
| ± 0.05        |     |     |      |     |      |     |     |     |     |     |     |

**3.1. Deliverable Reel Size:**

| Net Weight per Reel (kg) |     |     |     |  |
|--------------------------|-----|-----|-----|--|
|                          | 0.1 | 0.5 | 0.8 |  |
| ± 0.01                   |     |     |     |  |

**4. Physical Properties:**

| Solidus °C | Liquidus °C | Specific Gravity |
|------------|-------------|------------------|
| 217        | 221         | 7.4              |

**5. Characterisctcs:**

| Test                       | Characteristics       | Test Methods        |
|----------------------------|-----------------------|---------------------|
| Flux Content               | 3,5% 3.0 ~ 4.0 (%)    | IPC-TM-650:2.3.34.1 |
| Copper Mirror Test         |                       | IPC-TM-650:2.3.32   |
| Silver Chromate            | pass                  | IPC-TM-650:2.3.33   |
| Flux materials composition | RE                    | J-Std-004:1.2       |
| Quantitative Halide        | LO < 0.0%             | IPC-TM-650:2.3.35   |
| SIR (85°C, 85%, 168hr) (Ω) | ≥ 1 x 10 <sup>9</sup> | IPC-TM-650:2.6.3.3  |
| Corrosion Test             | pass                  | IPC-TM-650:2.6.15   |

**6. Chemical Composition: (%)**

| Composition | Components |       |        |       |       |        |       |       |
|-------------|------------|-------|--------|-------|-------|--------|-------|-------|
|             | Sn         | Ag    | Cu     | Pb    | Sb    | Bi     | Au    | In    |
| Standard    | Rest       | 3.0   | 0.5    | ≤0.05 | ≤0.10 | ≤0.05  | ≤0.05 | ≤0.10 |
| Composition | Components |       |        |       |       |        |       |       |
|             | Al         | As    | Cd     | Fe    | Ni    | Zn     | Co    |       |
| Standard    | ≤0.001     | ≤0.03 | ≤0.002 | ≤0.04 | ≤0.02 | ≤0.001 | ≤0.02 |       |

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

**8. Identification:**

| <b>Reel</b>  |                      | <b>Cardboard</b> |                      |
|--------------|----------------------|------------------|----------------------|
| Name         | NHR-TH LFM-48 S      | Name             | NHR-TH LFM-48 S      |
| Flux Content | 3,5%                 | Flux Content     | 3,5%                 |
| Diameter     | mm                   | Diameter         | mm                   |
| Net-Weight   | e.g. 500g            | Net-Weight       | e.g. 5kg             |
| Lot Nr.      | e.g. 13.11.25        | Lot Nr.          | e.g. 13.11.25        |
| Maker        | Nihon Almit Co. Ltd. | Maker            | Nihon Almit Co. Ltd. |

**9. Packing:**

| <b>Individual Package</b> |                      | <b>Outer Package</b> |
|---------------------------|----------------------|----------------------|
| Weight (kg)               | Packing              | Cardboard            |
| 0.1, 1.0                  | <b>Plastic Bag</b>   |                      |
| 0.5, 0.8                  | <b>Plastic Sheet</b> |                      |

**10. Maker Address:** Nihon Almit Co. Ltd. - Productive Engineering Center  
8154-227, Uenohara, Kitatsuru-gun, Yamanashi, 409-0112 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).