



# DAMID 200 AL

Rectangular enamelled conductor of aluminium, heat resistant class 200

**Product name:**

Damid 200 AL - Gr 2

**Specifications:**

IEC 60317-73 / NEMA MW35

**UL approval:**

Approved: Damid 200

UL-file no: E101843

**Class: 200**

Temperature index  $\geq 200^{\circ}\text{C}$

Heat shock:  $\geq 220^{\circ}\text{C}$

**Insulation:**

Basecoat: THEIC-modified polyester or polyesterimide

Overcoat: Polyamide-imide

**Properties:**

- High heat resistance
- Allows lightweight designs
- Very good resistance to transformer oil
- Very good resistance to typical solvent
- Freon resistant

**Field of application:**

- Oil-filled transformers
- Dry transformers
- Small transformers
- Welding transformers

**Standard packaging:**

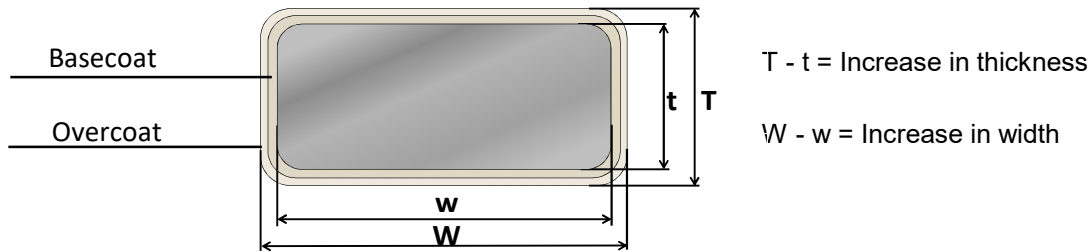
VM630

**Shelf life:**

10 years, under normal ambient conditions

**Conductor material:**

EN 1715 - EN AW1370 [Al 99.7]



Increase in dimension due to insulation = 0,12 - 0,17 mm

Conductor corner radius

| Nominal thickness of conductor (mm) |                     | Corner radius (mm)    | Tolerance |
|-------------------------------------|---------------------|-----------------------|-----------|
| Over                                | Up to and including |                       |           |
| -                                   | 1,00                | 0,5 nominal thickness | +/- 25%   |
| 1,00                                | 1,60                | 0,50                  | +/- 25%   |
| 1,60                                | 2,24                | 0,65                  | +/- 25%   |
| 2,24                                | 3,55                | 0,80                  | +/- 25%   |
| 3,55                                | 5,60                | 1,00                  | +/- 25%   |

Conductor tolerances

| Nominal width or thickness of the conductor (mm) |                     | Tolerance +/- (mm) |
|--|---------------------|--------------------|
| Over   | Up to and including |                    |
| -  | 3,15                | 0,030              |
| 3,15   | 6,30                | 0,050              |
| 6,30   | 12,50               | 0,070              |
| 12,50  | 16,00               | 0,100              |

Certified according to ISO 9001, IATF 16949, ISO 14001

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## Properties for DAMID 200 AL

| Main characteristics          | Test method     | Interval                       | Acceptance criteria                        | Test values for a Damid 200 AL sample (8,00 x 3,00) |
|-------------------------------|-----------------|--------------------------------|--|---|
| <b>Thermal properties</b>     |                 |                                |  |   |
| Heat shock                    | IEC 60851 - 6.3 | All sizes                      | ≥ 220°C, 6 x T                             | ≥ 220°C, 6 x T                                      |
| Temperature index             | IEC 60172       | 1)                             | ≥ 200°C <sup>2)</sup>                      | ≥ 200°C <sup>2)</sup>                               |
| <b>Electrical properties</b>  |                 |                                |  |   |
| Conductor resistance          | IEC 60851 - 5.3 | 3)                             | 0,02817 Ωmm <sup>2</sup> /m                | 0,02817 Ωmm <sup>2</sup> /m                         |
| Conductivity                  | 1/R             | 3)                             | > 35,5 m/(Ωmm <sup>2</sup> )               | > 35,5 m/(Ωmm <sup>2</sup> )                        |
| Breakdown voltage             | IEC 60851 - 5.4 | All sizes                      | 2,0 kV                                     | 4,2 kV  |
| <b>Mechanical properties</b>  |                 |                                |  |   |
| Flexibility                   | IEC 60851-3.5   | width ≤ 10 mm<br>width > 10 mm | 4 x width                                  | 3 x width   |
| - Bending edgewise            |                 |                                | 5 x width                                  | 4 x width   |
| - Bending flatwise            |                 | All sizes                      | 4 x thickness                              | 3 x thickness                                       |
| Adherence<br>-Cut and stretch | IEC 60851-3.5   | All sizes                      | 10 % stretch, Loss of adhesion < 1 x width | 15 % stretch  |

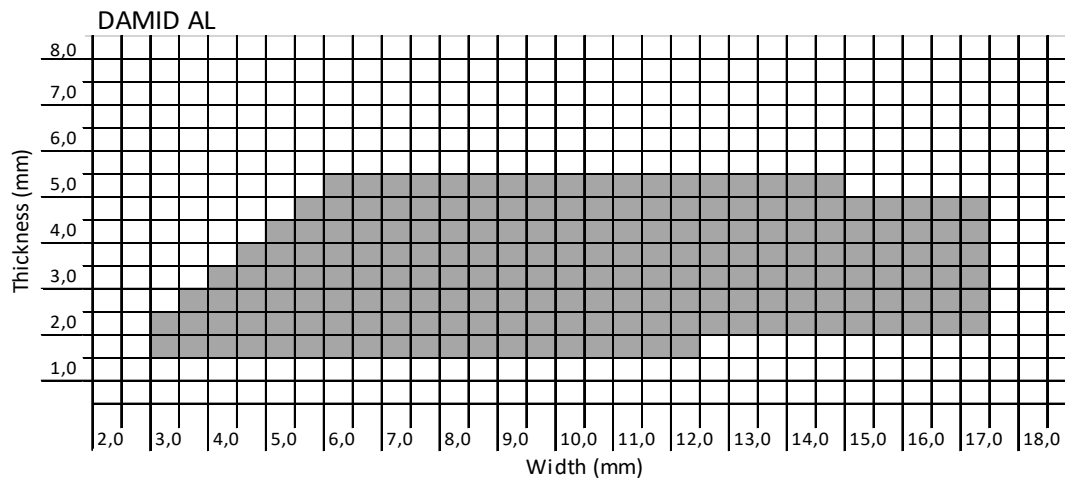
1. Test conducted on round wire, 1,00 mm grade 2, according to IEC 60172

2. According to supplier certificate

3. Dependence of dimension is expressed by the unit

Values above are for information only. All values noted are typical and can vary between lots and dimensions.

## Dimension range



The technical data included is up to date at the time of printing.

We reserves the right to make any amendments deemed necessary

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