



# DAMID 200

Rectangular enamelled conductor of copper, heat resistant, class 200

**Product name:**

Damid 200

**Specifications:**

IEC 60317-29 / NEMA MW35

**UL approval:**

Approved: Damid 200

UL-file no: E101843

**Class: 200**

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

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

**Conductor material:**

EN 1977 - ETP1 CW003 A

EN 1977 - ETP CW004A

ASTM B49 - ETP C11000/C11040

**Insulation:**

Basecoat: THEIC-modified polyester or polyesterimide

Overcoat: Polyamide-imide

**Properties:**

- High heat resistance
- Very good resistance to transformer oils
- Very good resistance to typical solvent
- Freon resistant
- Excellent resistance to mechanical stress

**Field of application:**

- Electric motors
- Rotor coils
- Transformers
- Chokes

**Dimension range:**

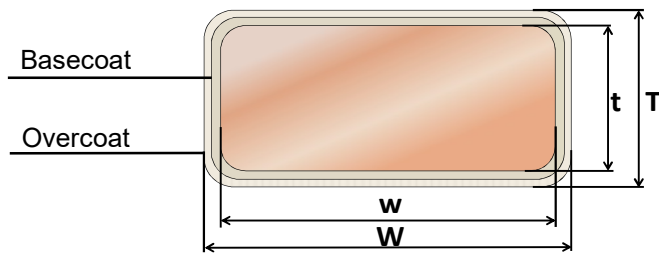
Damid 200 - Gr 2                      1,8 - 100 mm<sup>2</sup>

**Standard packaging:**

K355, K500, VM630

**Shelf life:**

6 years, under normal ambient conditions



T - t = Increase in thickness

W - w = Increase in width

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                                | -                   | 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  | -                   | 0,100              |

Certified according to ISO 9001, IATF 16949, ISO 14001

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## Properties for DAMID 200

| Main characteristics         | Test method     | Interval                   | Acceptance criteria                                 | Test values for a Damid 200 sample (5,60 x 3,55 mm) |
|------------------------------|-----------------|----------------------------|---|---|
| <b>Thermal properties</b>    |                 |                            |   |   |
| Heat shock                   | IEC 60851 - 6.3 | All sizes                  | $\geq 220^{\circ}\text{C}$ , 6 x t                  | $\geq 220^{\circ}\text{C}$ , 6 x t                  |
| Temperature index            | IEC 60172       | <sup>1)</sup>              | $\geq 200^{\circ}\text{C}^{2)}$                     | $\geq 200^{\circ}\text{C}^{2)}$                     |
| <b>Electrical properties</b> |                 |                            |   |   |
| Conductor resistance         | IEC 60851 - 5.3 | <sup>3)</sup>              | 0,01724 $\Omega\text{mm}^2/\text{m}$                | 0,01724 $\Omega\text{mm}^2/\text{m}$                |
| Conductivity                 | 1/R             | <sup>3)</sup>              | $> 58,5 \text{ m}/(\Omega\text{mm}^2)$              | $> 58,5 \text{ m}/(\Omega\text{mm}^2)$              |
| Breakdown voltage            | IEC 60851 - 5.4 | All sizes                  | 2,0 kV  | $> 5,0 \text{ kV}$                                  |
| <b>Mechanical properties</b> |                 |                            |   |   |
| Elongation                   | IEC 60851-3.3   | $1,00 \leq t \leq 2,50$    | $\geq 30\%$   | -   |
|                              |                 | $t > 2,50$                 | $\geq 32\%$   | 40%   |
| Springback angle             | IEC 60851-3.4   | All sizes                  | $\leq 5^{\circ}$                                    | 4,1°  |
| Flexibility                  | IEC 60851-3.5   | width $\leq 10 \text{ mm}$ | 4 x width   | 3 x width   |
|                              |                 | width $> 10 \text{ mm}$    | 5 x width   | 4 x width   |
| - Bending edgewise           |                 | All sizes                  | 4 x thickness                                       | 3 x thickness                                       |
| - Bending flatwise           |                 | All sizes                  | 4 x thickness                                       | 3 x thickness                                       |
| Adherence                    | IEC 60851-3.5   | All sizes                  | 15% stretch, Loss of adhesion $< 1 \text{ x width}$ | 30% stretch   |
| -Cut and stretch             |                 |                            |   |   |

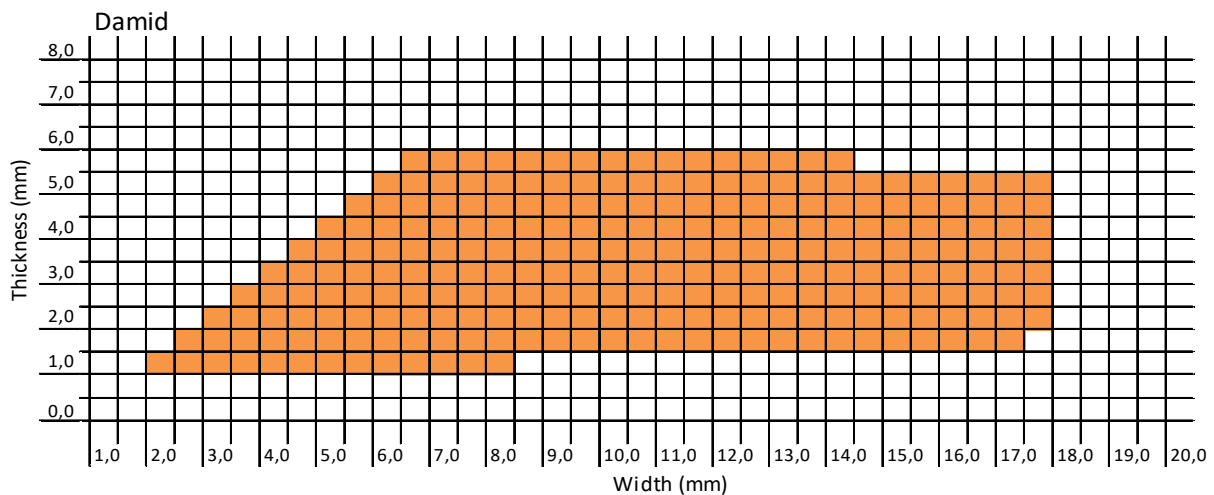
1. Test conducted on round wire, 1,00 mm grade 2, according to IEC 60172

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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