# 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 ≥ 200°C
Heat shock: ≥ 220°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

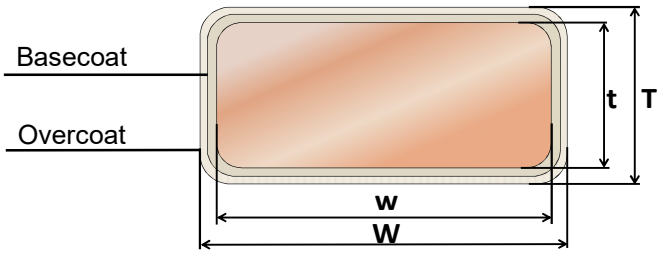
**Properties:**
- High heat resistance
- Very good resistance to transformer oils
- Very good resistance to typical solvent
- Freon resistant
- Excellent resistance to mechanical stress

**Field of application:**
- Electric motors
- Rotor coils
- Transformers
- Chokes

**Dimension range:**
Damid 200 - Gr 2 1,8 - 100 mm²

**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 |



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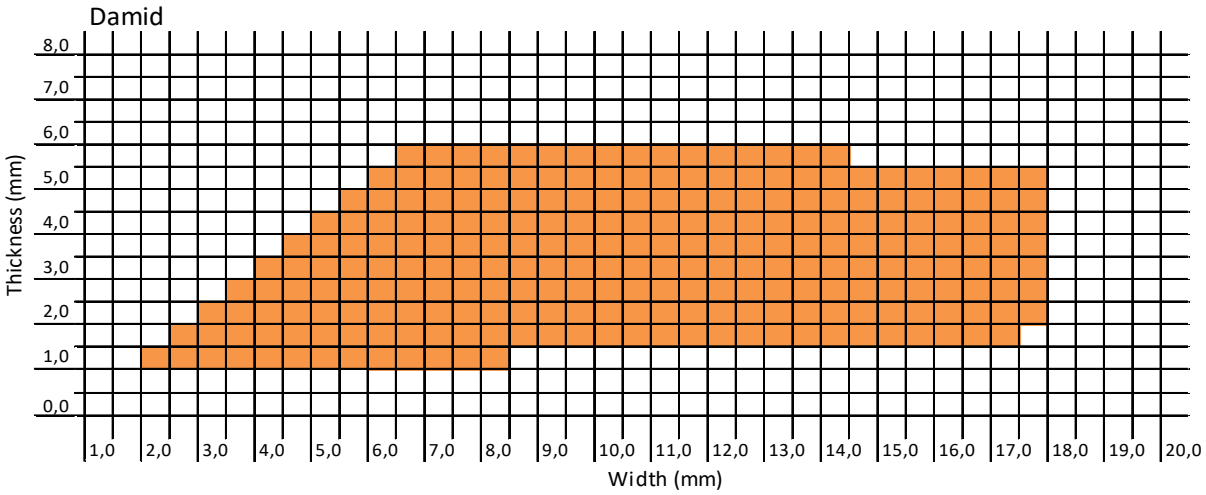
## Properties for DAMID 200

| Main characteristics | Test method | Interval | Acceptance criteria | Test values for a Damid 200 sample (5,60 x 3,55 mm) |
|---|---|---|---|---|
| **Thermal properties** | | | | |
| 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 2) | ≥ 200°C 2) |
| **Electrical properties** | | | | |
| Conductor resistance | IEC 60851 - 5.3 | 3) | 0,01724 Ωmm²/m | 0,01724 Ωmm²/m |
| Conductivity | 1/R | 3) | > 58,5 m/(Ωmm²) | > 58,5 m/(Ωmm²) |
| Breakdown voltage | IEC 60851 - 5.4 | All sizes | 2,0 kV | > 5,0 kV |
| **Mechanical properties** | | | | |
| Elongation | IEC 60851-3.3 | 1,00 ≤ t ≤ 2,50 | ≥ 30% | - |
| | | t > 2,50 | ≥ 32% | 40% |
| Springback angle | IEC 60851-3.4 | All sizes | ≤ 5° | 4,1° |
| Flexibility | IEC 60851-3.5 | | | |
| - Bending edgewise | | width ≤ 10 mm | 4 x width | 3 x width |
| | | width > 10 mm | 5 x width | 4 x width |
| - Bending flatwise | | All sizes | 4 x thickness | 3 x thickness |
| Adherence -Cut and stretch | IEC 60851-3.5 | All sizes | 15% stretch, Loss of adhesion < 1 x width | 30% 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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Certified according to ISO 9001, IATF 16949, ISO 14001

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