



DAMIDBOND 200

Round enamelled winding wire of copper, bondable, class 200

Product name:

Damidbond 200 - Gr 1B
 Damidbond 200 - Gr 2B

Specifications:

IEC 60317-38 / NEMA MW102

UL approval:

Approved: Damidbond 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
 Bondingcoat: Modified aromatic polyamide

Properties:

- High heat resistance
- Suitable for winding in high speed machines
- Very good resistance to transformer oils
- Very good resistance to typical solvent
- Freon resistant
- Excellent resistance to mechanical stress
- Bondable at 180°C - 220°C
- High re-softening temperature (190°C)

Field of application:

- Electric motors
- Hermetic compressors
- Solenoid coils
- Relay coils

Dimension range:

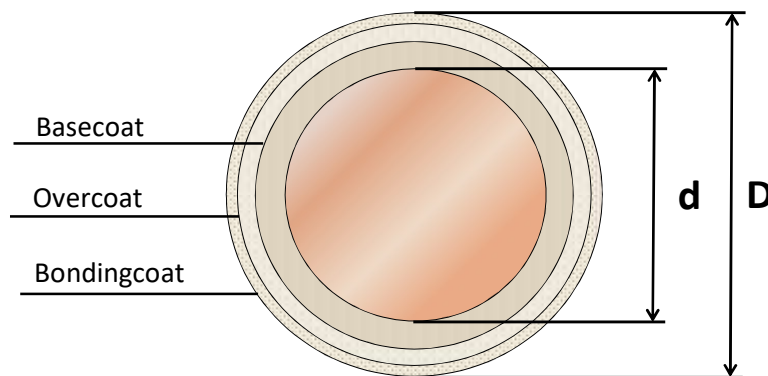
Damidbond 200 Gr 1B $0,200 \leq \varnothing \leq 1,500 \text{ mm}$
 Damidbond 200 Gr 2B $0,200 \leq \varnothing \leq 1,500 \text{ mm}$

Standard

$0,200 \leq \varnothing \leq 1,500 \text{ mm}$ A250/400, A315/500, A400/630

Shelf life:

2 years, under normal ambient conditions



D - d = Increase

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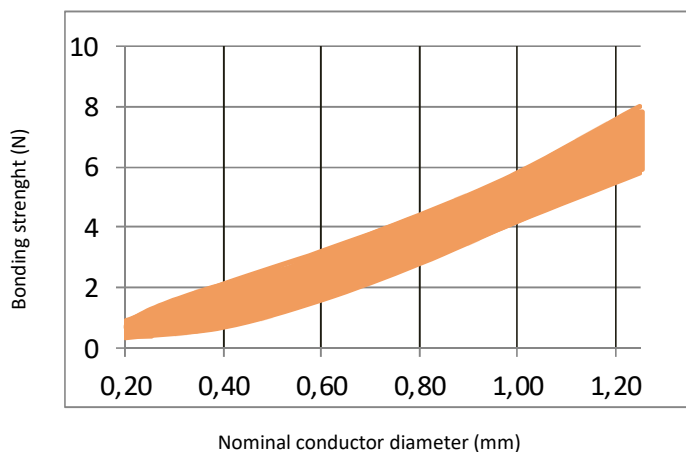
Properties for DAMIDBOND 200

Main characteristics	Test method	Acceptance criteria	Test values for a Damidbond 200 sample (0,56 mm, Gr1B)
<u>Thermal properties</u>			
Heat shock	IEC 60851 - 6.3	≥ 220°C	≥ 220°C
Cut-through	IEC 60851 - 6.4	≥ 320°C	OK at 330°C
Temperature index	IEC 60172	≥ 200°C ¹⁾	≥ 200°C ¹⁾
<u>Electrical properties</u>			
Conductor resistance	IEC 60851 - 5.3	0,01724 Ωmm ² /m	0,01724 Ωmm ² /m
Conductivity	1/R	> 58 m/(Ωmm ²)	> 58 m/(Ωmm ²)
Breakdown voltage	IEC 60851 - 5.4	IEC 60317-0-1 ²⁾	6,0 kV
<u>Mechanical properties</u>			
Elongation	IEC 60851-3.3	IEC 60317-0-1 ²⁾	40%
Springiness	IEC 60851-3.4	IEC 60317-0-1 ²⁾	39°
Flexibility	IEC 60851-3.5 Mandrel wind.	1xØ	10 % elongation + 1xØ
Adherence	IEC 60851-3.5	Jerktest ³⁾	OK
		Peeltest ⁴⁾	min. 110 ⁵⁾
<u>Bonding</u>	IEC 60851-3.7	IEC 60317-38.18	2,5 N at 190°C

1. According to supplier certificate
2. Values depend on dimension and grade
3. Up to an including 1,00 mm
4. Over 1,00 mm
5. Revolutions x nominal dimension

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

Bonding strenght



The technical data included is up to date at the time of printing.
We reserves the right to make any amendments deemed necessary