



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:

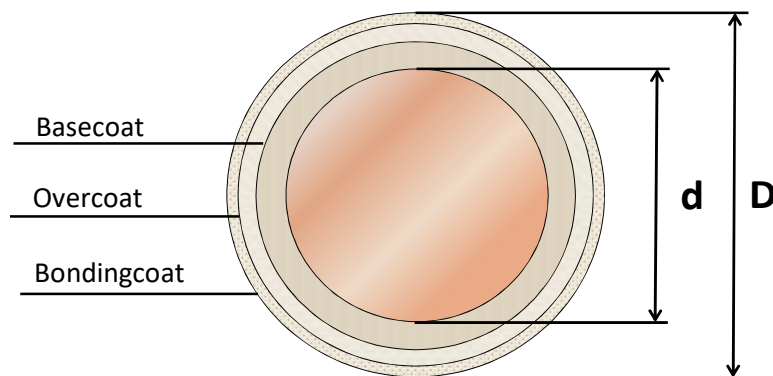
Damidbond 200 Gr 1B $0,315 \leq \varnothing \leq 1,500 \text{ mm}$
 Damidbond 200 Gr 2B $0,315 \leq \varnothing \leq 1,500 \text{ mm}$

Standard

A250/400, A315/500, A400/630

Shelf life:

2 years, under normal ambient conditions



$D - d = \text{Increase}$

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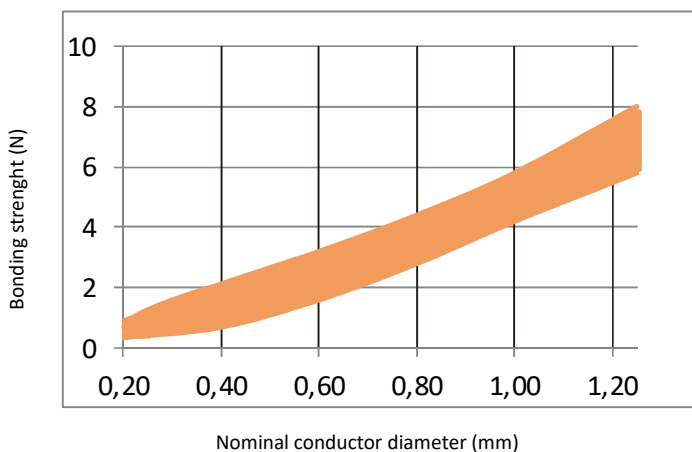
Properties for DAMIDBOND 200

Main characteristics	Test method	Acceptance criteria	Test values for a Damidbond 200 sample (0,56 mm, Gr1B)
Thermal properties			
Heat shock	IEC 60851 - 6.3	$\geq 220^{\circ}\text{C}$	$\geq 220^{\circ}\text{C}$
Cut-through	IEC 60851 - 6.4	$\geq 320^{\circ}\text{C}$	OK at 330°C
Temperature index	IEC 60172	$\geq 200^{\circ}\text{C}^{1)}$	$\geq 200^{\circ}\text{C}^{1)}$
Electrical properties			
Conductor resistance	IEC 60851 - 5.3	0,01724 $\Omega\text{mm}^2/\text{m}$	0,01724 $\Omega\text{mm}^2/\text{m}$
Conductivity	1/R	$> 58,5 \text{ m}/(\Omega\text{mm}^2)$	$> 58,5 \text{ m}/(\Omega\text{mm}^2)$
Breakdown voltage	IEC 60851 - 5.4	IEC 60317-0-1 ²⁾	6,0 kV
Mechanical properties			
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.	1x \emptyset	10 % elongation + 1x \emptyset
Adherence	IEC 60851-3.5	Jerktest ³⁾	OK
		Peeltest ⁴⁾	-
Bonding	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

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