



# 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

**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  $180^{\circ}\text{C}$ - $220^{\circ}\text{C}$
- High re-softening temperature ( $190^{\circ}\text{C}$ )

**Field of application:**

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

**Dimension range:**

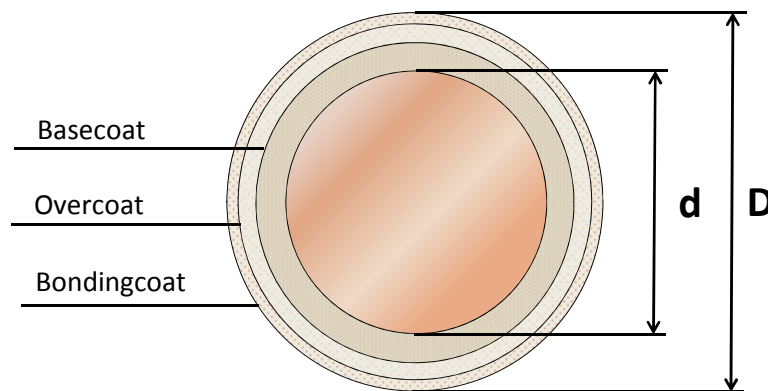
Damidbond 200 Gr 1B  $0,200 \leq \varnothing \leq 1,500 \text{ mm}$   
 Damidbond 200 Gr 2B  $0,200 \leq \varnothing \leq 1,500 \text{ mm}$

**Standard packaging:**

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

**Shelf life:**

2 years, under normal ambient conditions



D - d = Increase

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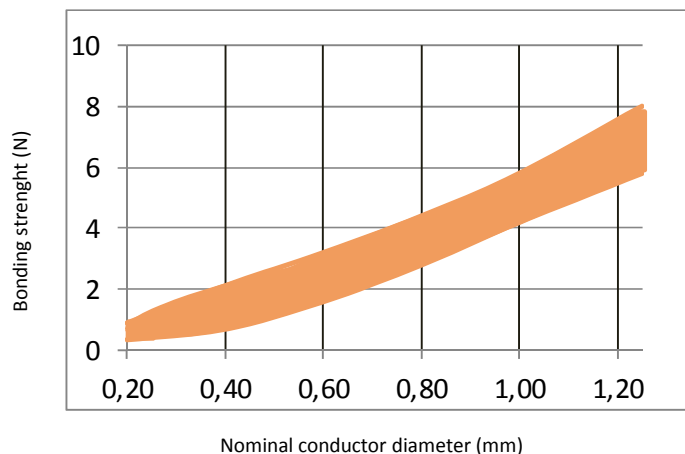
## Properties for DAMIDBOND 200

Main characteristics	Test method	Acceptance criteria	Test values for a Damidbond 200 sample (0,56 mm, Gr1B)
<b>Thermal properties</b>			
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 <sup>1)</sup>	≥ 200°C <sup>1)</sup>
<b>Electrical properties</b>			
Conductor resistance	IEC 60851 - 5.3	0,01724 Ωmm <sup>2</sup> /m	0,01724 Ωmm <sup>2</sup> /m
Conductivity	1/R	> 58 m/(Ωmm <sup>2</sup> )	> 58 m/(Ωmm <sup>2</sup> )
Breakdown voltage	IEC 60851 - 5.4	IEC 60317-0-1 <sup>2)</sup>	6,0 kV
<b>Mechanical properties</b>			
Elongation	IEC 60851-3.3	IEC 60317-0-1 <sup>2)</sup>	40%
Springiness	IEC 60851-3.4	IEC 60317-0-1 <sup>2)</sup>	39°
Flexibility	IEC 60851-3.5 Mandrel wind.	1x∅	10 % elongation + 1x∅
Adherence	IEC 60851-3.5	Jerktest <sup>3)</sup>	No loss of adhesion
		Peeltest <sup>4)</sup>	min. 110 <sup>5)</sup>
<b>Bonding</b>	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.  
LWW reserves the right to make any amendments deemed necessary

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