



# DAMID CR 200

Round enamelled winding wire of copper, corona resistant, class 200

## Product name:

Damid CR 200 - Gr 1  
 Damid CR 200 - Gr 2  
 Damid CR 200 - Gr 3

## Specifications:

IEC 60317-13 / NEMA MW37

## UL approval:

Approved: Damid CR 200  
 UL file no: E101843

## Class: 200

Temperature index:  $\geq 200^{\circ}\text{C}$   
 Heat shock:  $220^{\circ}\text{C}$

## Conductor material:

EN 1977 - ETP1 CW003 A  
 EN 1977 - ETP CW004A  
 ASTM B49 - ETP C11000/C11040

## Insulation:

Basecoat: THEIC-modified polyesterimide  
 Overcoat: Polyamide-imide

## Properties:

- Excellent corona effect resistance
- High cut-through temperature
- Very good heat resistance
- Very good mechanical resistance

## Field of application:

- Transformers
- Traction motors
- Power bridges
- Electric motors
- Inverter fed motors

## Dimension range:

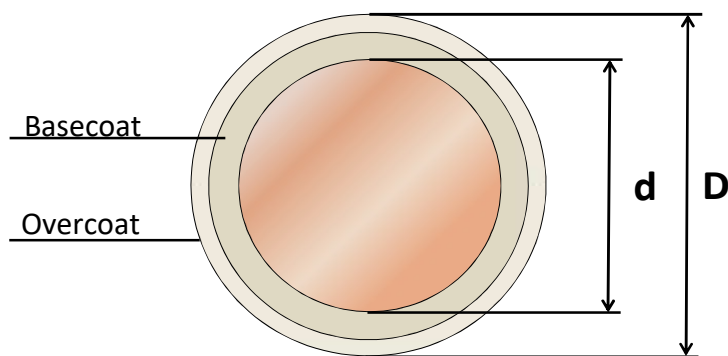
Damid CR 200 Gr 1	$0,67 \leq \varnothing \leq 2,000 \text{ mm}$
Damid CR 200 Gr 2	$0,67 \leq \varnothing \leq 2,000 \text{ mm}$
Damid CR 200 Gr 3	$0,67 \leq \varnothing \leq 1,600 \text{ mm}$

## Standard packaging:

A250/400, A315/500, A400/630

## Shelf life:

6 years, under normal ambient conditions



$D - d = \text{Increase}$

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## Properties for DAMID CR 200

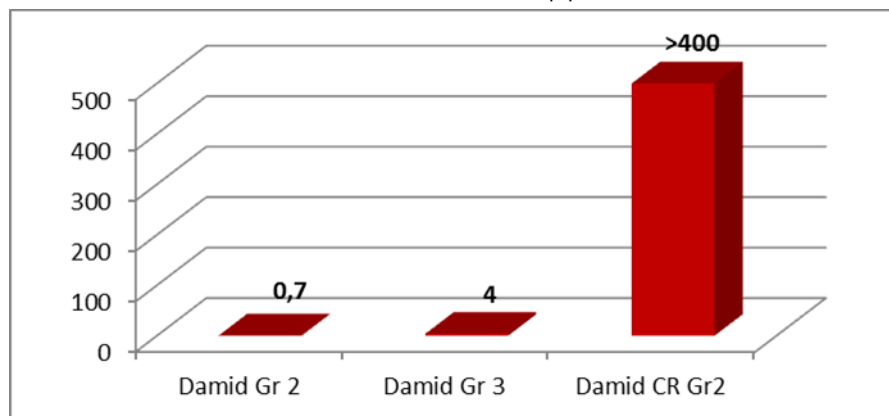
Main characteristics	Test method	Property values	Test values for a DAMID CR 200 sample (1.12 mm Gr2)
<b>Thermal properties</b>			
Heat shock	IEC 60851 - 6.3	≥ 220°C	≥ 240°C
Cut-through	IEC 60851- 6.4	≥ 320°C	≥ 320°C
Temperature index	IEC 60172	≥ 200°C <sup>1)</sup>	≥ 200°C <sup>1)</sup>
<b>Electrical 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	> 58,5 m/(Ωmm <sup>2</sup> )	> 58,5 m/(Ωmm <sup>2</sup> )
Breakdown voltage	IEC 60851 - 5.4	IEC 60317-0-1 <sup>2)</sup>	8,0 kV
<b>Mechanical properties</b>			
Elongation	IEC 60851-3.3	IEC 60317-0-1 <sup>2)</sup>	38%
Springiness	IEC 60851-3.4	Springiness <sup>3)</sup>	IEC 60317-0-1 <sup>2)</sup>
		Springback <sup>4)</sup>	≤ 5°
Flexibility	IEC 60851-3.5	Mandrel wind. <sup>3)</sup>	1 x ∅
		Stretching <sup>4)</sup>	min 32 %
Adherence	IEC 60851-3.5	Jerktest <sup>5)</sup>	No loss of adhesion
		Peeltest <sup>6)</sup>	min. 110 <sup>7)</sup>

1. According to supplier certificate
2. Values depend on dimension
3. Up to an including 1,60 mm
4. Over 1,60 mm
5. Up to and including 1,00 mm
6. Over 1,00 mm
7. Revolutions x nominal dimension

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

## Lifetime of DAMID and DAMID CR under inverter duty

Test conditions: 16kHz 2,4 kV p-p 155°C



Test developed and performed by enamel supplier

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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