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: ≥ 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 polyesterimide
Overcoat: Polyamide-imide

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

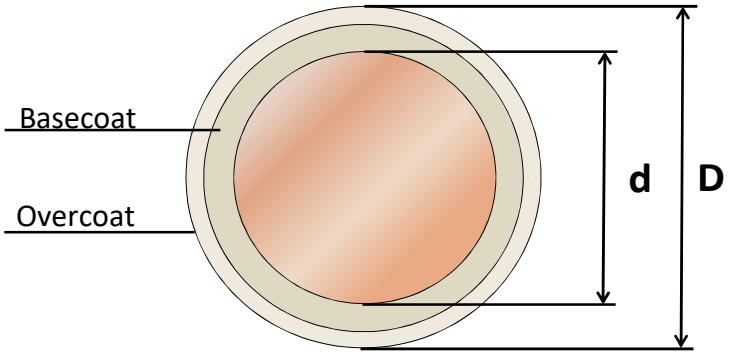
Field of application:
- Transformers
- Traction motors
- Power bridges
- Electric motors
- Inverter fed motors

Dimension range:

Damid CR 200 Gr 1	0,67 ≤ Ø ≤ 2,000 mm
Damid CR 200 Gr 2	0,67 ≤ Ø ≤ 2,000 mm
Damid CR 200 Gr 3	0,67 ≤ Ø ≤ 1,600 mm

Standard packaging:
A250/400, A315/500, A400/630

Shelf life:
6 years, under normal ambient conditions



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Properties for DAMID CR 200

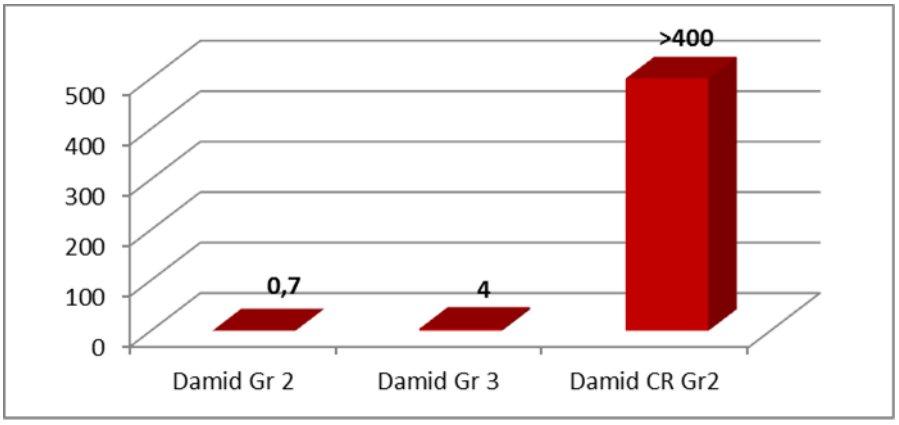
Main characteristics	Test method		Property values	Test values for a DAMID CR 200 sample (1.12 mm, Gr2)
Thermal properties				
Heat shock	IEC 60851 - 6.3		≥ 220°C	≥ 240°C
Cut-through	IEC 60851- 6.4		≥ 320°C	≥ 320°C
Temperature index	IEC 60172		≥ 200°C[1)]	≥ 200°C[1)]
Electrical properties				
Conductor resistance	IEC 60851 - 5.3		0,01724 Ωmm²/m	0,01724 Ωmm²/m
Conductivity	1/R		> 58,5 m/(Ωmm²)	> 58,5 m/(Ωmm²)
Breakdown voltage	IEC 60851 - 5.4		IEC 60317-0-1[2)]	8,0 kV
Mechanical properties				
Elongation	IEC 60851-3.3		IEC 60317-0-1[2)]	38%
Springiness	IEC 60851-3.4	Springiness[3)]	IEC 60317-0-1[2)]	38°
		Springback[4)]	≤ 5°	-
Flexibility	IEC 60851-3.5	Mandrel wind.[3)]	1 x Ø	1 x Ø
		Stretching[4)]	min 32 %	-
Adherence	IEC 60851-3.5	Jerktest[5)]	No loss of adhesion	-
		Peeltest[6)]	min. 110[7)]	128

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

Ed.A(4) 2023.03

Certified according to ISO 9001, IATF 16949, ISO 14001

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