



DAMID 220

Round enamelled winding wire of copper, heat resistant, class 220*

Product name:

Damid 220 - Gr 1

Damid 220 - Gr 2

Specifications:

IEC 60317-57 / NEMA MW81

UL approval:

Not approved

Class: 220

Temperature index ≥ 220 °C

Heat shock: ≥ 240 °C

Conductor material:

EN 1977 - ETP1 CW003A

EN 1977 - ETP CW004A

ASTM B49 - ETP C11000/C11040

Insulation:

Basecoat: Polyamide-imide

Properties:

- Very good abrasion resistance
- Excellent heat resistance
- Suitable for winding in high speed machines

Field of application:

- High thermal applications
- Hermetic compressors
- Ballasts
- Automotive components

Dimension range:

Damid 220 - Gr 1 $0,25 \leq \varnothing \leq 0,67$ mm

Damid 220 - Gr 2 $0,25 \leq \varnothing \leq 0,67$ mm

Damid 220 - Gr 3 Upon request

Other dimensions upon request

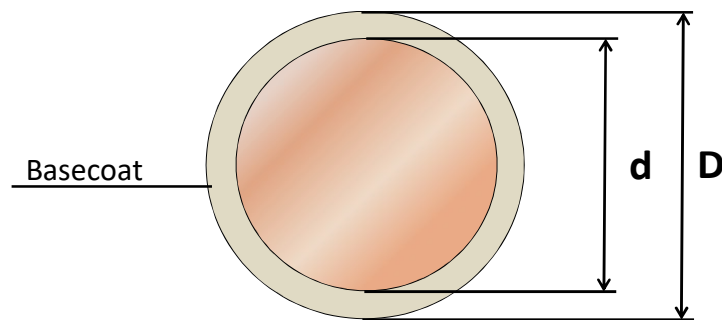
Standard packaging:

A250/400, A315/500, A400/630

Shelf life:

6 years, under normal ambient conditions

* Non standard product, minimum order quantities applies



$D - d = \text{Increase}$

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Properties for DAMID 220

Main characteristics	Test method	Acceptance criteria	Test values for a Damid 220 sample (1,00 mm, Gr2)
<u>Thermal properties</u>			
Heat shock	IEC 60851 - 6.3	$\geq 240\text{ }^{\circ}\text{C}$	$\geq 240\text{ }^{\circ}\text{C}$
Cut-through	IEC 60851 - 6.4	$\geq 350^{\circ}\text{C}$	$> 430\text{ }^{\circ}\text{C}$
Temperature index	IEC 60172	$\geq 220\text{ }^{\circ}\text{C}^{1)}$	$\geq 220\text{ }^{\circ}\text{C}^{1)}$
<u>Electrical properties</u>			
Conductor resistance	IEC 60851 - 5.3	$0,01724\text{ }\Omega\text{mm}^2/\text{m}$	$0,01724\text{ }\Omega\text{mm}^2/\text{m}$
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⁾	8,0 kV
<u>Mechanical properties</u>			
Elongation	IEC 60851-3.3	IEC 60317-0-1 ²⁾	40%
Springiness	IEC 60851-3.4	Springiness ³⁾	42°
		Springback ⁴⁾	-
Flexibility	IEC 60851-3.5	Mandrel wind. ³⁾	10 % elongation + 1xØ
		Stretching ⁴⁾	min 32%
Adherence	IEC 60851-3.5	Jerktest ⁵⁾	OK
		Peeltest ⁶⁾	-

1. According to supplier certificate

2. Values depend on dimension and grade

3. Up to an including 1,60 mm

4. Over 1,60 mm

5. Up to an 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.

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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