



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:

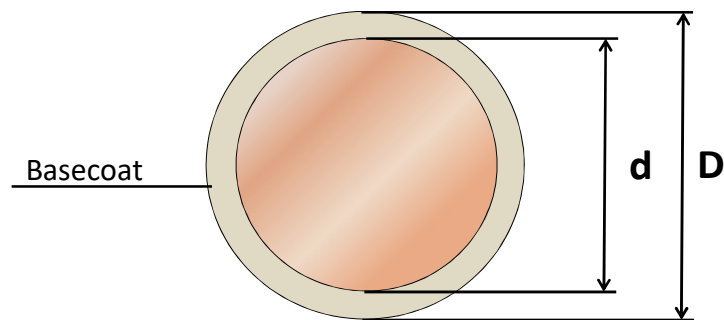
Damid 220 - Gr 1	$0,250 \leq \varnothing \leq 2,00$ mm
Damid 220 - Gr 2	$0,250 \leq \varnothing \leq 2,00$ mm
Damid 220 - Gr 3	Upon request

Standard packaging:

$0,250 \leq \varnothing \leq 2,00$ mm	A250/400, A315/500, A400/630
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Shelf life:

6 years, under normal ambient conditions



$D - d = \text{Increase}$

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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	≥ 240 °C	≥ 240 °C
Cut-through	IEC 60851 - 6.4	≥ 350°C	> 430 °C
Temperature index	IEC 60172	≥ 220 °C ¹⁾	≥ 220 °C ¹⁾
<u>Electrical properties</u>			
Conductor resistance	IEC 60851 - 5.3	0,01724 Ωmm ² /m	0,01724 Ωmm ² /m
Conductivity	1/R	> 58 m/(Ωmm ²)	> 58 m/(Ωmm 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⁾	IEC 60317-0-1 ²⁾
		Springback ⁴⁾	≤5°
Flexibility	IEC 60851-3.5	Mandrel wind. ³⁾	1x∅
		Stretching ⁴⁾	min 32%
Adherence	IEC 60851-3.5	Jerktest ⁵⁾	No loss of adhesion
		Peeltest ⁶⁾	min. 75 ⁷⁾

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.