

DAMID 220

Round enamelled winding wire of copper, class 220

Former designation:
AMIDER22
Damid PAI

Product name:

Damid 220 - Gr 1
Damid 220 - Gr 2

Specifications:

IEC 60317-57

UL approval:

Approved: AMIDER22
UL-file no: E206884

Class: 220

Temperature index ≥ 220 °C
Heat shock: ≥ 240 °C

Conductor material:

Cu according to EN 1977/ASTM B49

Insulation:

Basecoat: Polyamide-imide

Properties:

- Resistant to aggressive mediums
- Good abrasion resistance
- High thermo resistance
- Suitable for winding in high speed machines

Field of application:

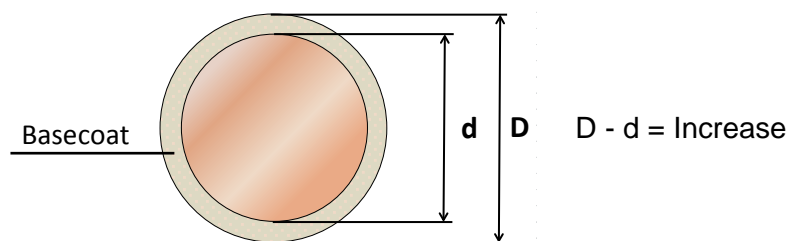
- High thermal application: electric motors
- Hermetic compressors
- Ballasts
- Automotive components

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

Shelf life:

6 years, under normal ambient conditions



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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	0,01709 Ωmm ² /m	0,01709 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⁾	0% elongation + 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.

The technical data included is up to date at the time of printing.

LWW reserve the right to make any amendments deemed necessary

Liljedahl Winding Wire

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liljedahl winding wire