



# DAMID 240

Round enamelled conductor of copper, heat resistant, class 240

**Product name:**

Damid 240 - Gr 1  
 Damid 240 - Gr 2

**Specifications:**

IEC 60317-46

**UL approval:**

Not approved

**Class: 240**

Temperature index:  $\geq 240^{\circ}\text{C}$   
 Heat shock:  $260^{\circ}\text{C}$

**Conductor material:**

EN 1977 - ETP1 CW003A  
 EN 1977 - ETP CW004A  
 ASTM B49 - ETP C11000/C11040

**Insulation:**

Basecoat: Aromatic polyimid or Polyamide-Imide

**Properties:**

- Very high cut-trough temperature
- Excellent heat resistance
- Very good mechanical resistance

**Field of application:**

- Electric machines

**Dimension range:**

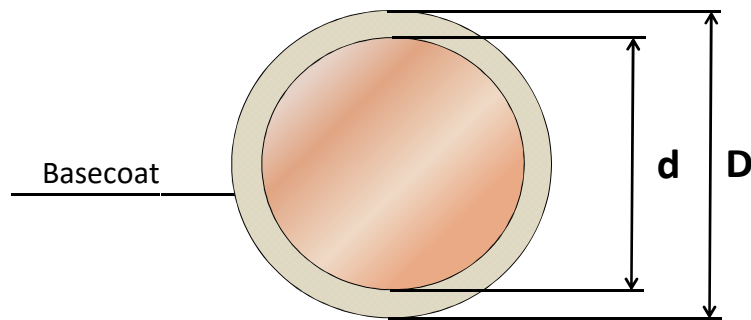
Damid 240 - Gr 1       $0,630 \leq \varnothing \leq 2,000 \text{ mm}$   
 Damid 240 - Gr 2       $0,630 \leq \varnothing \leq 2,000 \text{ mm}$

**Standard**

$0,630 \leq \varnothing \leq 1,500 \text{ mm}$       A400/630

**Shelf life:**

10 years, under normal ambient conditions



$D - d = \text{Increase}$

# DAMID 240

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## Properties for DAMID 240

Main characteristics	Test method	Property values	Test values for a DAMID 240 sample (1,25 mm, Gr2)
<b>Thermal properties</b>			
Heat shock	IEC 60851 - 6.3	≥ 260°C	≥ 260°C
Cut-through	IEC 60851- 6.4	≥ 450°C	≥ 450°C
Temperature index	IEC 60172	≥ 240°C <sup>1)</sup>	≥ 240°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 m/(Ωmm <sup>2</sup> )	> 58 m/(Ωmm <sup>2</sup> )
Breakdown voltage	IEC 60851 - 5.4	IEC 60317-0-1 <sup>2)</sup>	10,0 kV
<b>Mechanical properties</b>			
Elongation	IEC 60851-3.3	IEC 60317-0-1 <sup>2)</sup>	40%
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 Ø
		Stretching <sup>4)</sup>	min 32 %
Adherence	IEC 60851-3.5	Jerktest <sup>5)</sup>	No loss of adhesion
		Peeltest <sup>6)</sup>	min. 90 <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.

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

LWW reserves the right to make any amendments deemed necessary

Ed.A(3)