

DAMID 180

Round enamelled winding wire of copper, class 180

Former designation:
Friotherm 2000 FH

Product name:

Damid 180- Gr 1
Damid 180- Gr 2

Specifications:

IEC 60317-8

UL approval:

Approved: Friotherm FH 2000
UL-file no: E106565, MW 74

Class: 180

Temperature index ≥ 180 °C
Heat shock: ≥ 200 °C

Conductor material:

Cu according to EN 1977/ASTM B49

Insulation:

THEIC-modified esterimide

Properties:

- Very good oil resistance
- Very good freon resistance
- Very good hydrolysis resistance

Field of application:

- Electrical devices
- Oil-immersed transformers
- Cast-resin transformers

Dimension range:

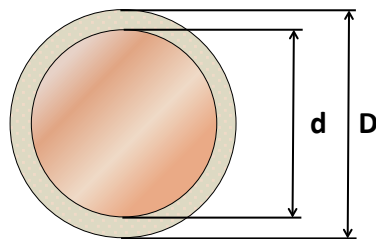
Damid 180 Gr 1	$0,150 \leq \varnothing \leq 6,00$ mm
Damid 180 Gr 2	$0,150 \leq \varnothing \leq 6,00$ mm

Standard packaging:

$0,150 \leq \varnothing \leq 3,35$ mm	250/400, 315/500
$3,50 \leq \varnothing \leq 6,00$ mm	500, 630, 710

Shelf life:

6 years, under normal ambient conditions



D - d = Increase

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Properties for DAMID 180

Main characteristics	Test method	Acceptance criteria	Test values for a Damid 180 sample (1,00 mm, Gr2)
<u>Thermal properties</u>			
Heat shock	IEC 60851 - 6.3	≥ 200 °C	≥ 200 °C
Cut-through	IEC 60851 - 6.4	≥ 320°C	> 400 °C
Temperature index	IEC 60172	≥ 180 °C ¹⁾	≥ 180 °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⁾	> 6,0 kV cyl.
<u>Mechanical properties</u>			
Elongation	IEC 60851-3.3	IEC 60317-0-1 ²⁾	40%
Springiness	IEC 60851-3.4	IEC 60317-0-1 ²⁾	43°
Flexibility	IEC 60851-3.5 (Mandrel winding)	0% elongation + 1x∅	15 % + 1x∅
Adherence	IEC 60851-3.5	Jerktest ³⁾	OK
		Peeltest ⁴⁾	min. 110 ⁵⁾

1. According to supplier certificate

2. Values depend on dimension and grade

3. Up to an including 1,00 mm

4. Over 1,00 mm

5. 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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ślaska

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liljedahl winding wire