



DAMIDSOL 180

Round enamelled winding wire of copper, solderable, class 180

Product name:

Damidsol 180 - Gr 1

Damidsol 180 - Gr 2

Specifications:

IEC 60317-23

UL approval:

Approved: DAMIDSOL 180

UL-file no: E101843

Class: 180

Temperature index ≥ 180 °C

Heat shock: ≥ 200 °C

Conductor material:

EN 1977 - ETP1 CW003A

EN 1977 - ETP CW004A

ASTM B49 - ETP C11000/C11040

Insulation:

Modified polyesterimide

Properties:

- Very good hairline crack avoidance

- Solderable at 470 °C

Field of application:

- Motor applications

- Equipment construction

Dimension range:

Damid 180 Gr 1 $0,150 \leq \varnothing \leq 1,50$ mm

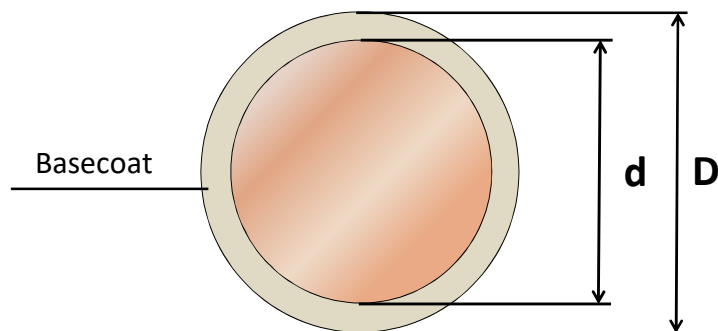
Damid 180 Gr 2 $0,150 \leq \varnothing \leq 1,50$ mm

Standard packaging:

$0,150 \leq \varnothing \leq 1,50$ mm A250/400, A315/500

Shelf life:

6 years, under normal ambient conditions



$D - d = \text{Increase}$

DAMIDSOL 180

Round enamelled winding wire of copper, solderable, class 180

Properties for DAMIDSOL 180

Main characteristics	Test method	Acceptance criteria	Test values for a Damidsol 180 sample (0,50 mm, Gr1)
<u>Thermal properties</u>			
Heat shock	IEC 60851 - 6.3	≥ 200 °C	≥ 200 °C
Cut-through	IEC 60851 - 6.4	≥ 265 °C	> 340 °C
Temperature index	IEC 60172	≥ 180 °C ¹⁾	≥ 180 °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⁾	> 4,0 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⁾	39°
Flexibility	IEC 60851-3.5 Mandrel wind.	1xØ	10 % elongation + 1xØ
Adherence	IEC 60851-3.5	Jerktest ³⁾	OK
		Peeltest ⁴⁾	-

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.