



# DASOL 180

Round enamelled winding wire of copper, solderable, class 180

## Product name:

Dasol 180 - Gr 1

Dasol 180 - Gr 2

## Specifications:

IEC 60317-51

## UL approval:

Approved: Dasol 180

UL-file no: E101843

## Class: 180

Temperature index  $\geq 180$  °C

Heat shock:  $\geq 200$  °C

## Conductor material:

Cu according to EN 1977/ASTM B49

## Insulation:

Basecoat: Polyurethane

## Properties:

- Suitable in high speed winding machines
- Directly solderable
- Short soldertime

## Field of application:

- Small motors and transformers
- Solenoid coils
- Relays

## Dimension range:

Dasol 180 - Gr 1  $0,200 \leq \varnothing \leq 2,000$  mm

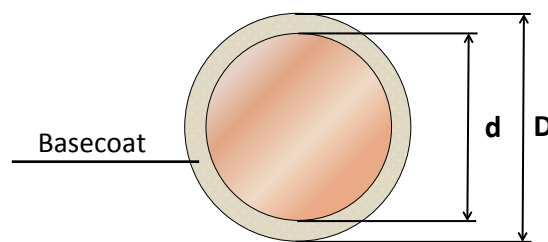
Dasol 180 - Gr 2  $0,200 \leq \varnothing \leq 2,000$  mm

## Standard packaging:

$0,200 \leq \varnothing \leq 2,000$  mm 200, 250, 250/400

## Shelf life:

8 years, under normal ambient conditions



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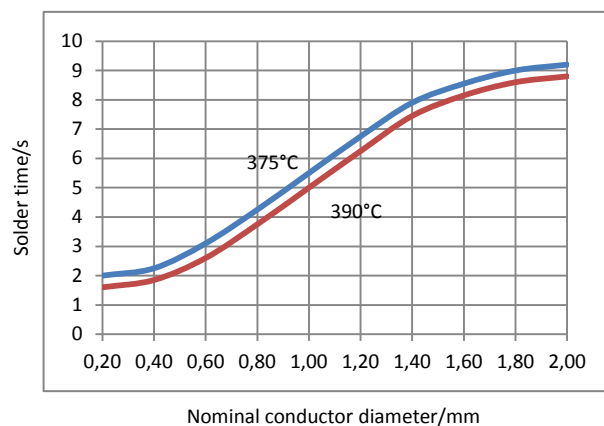
## Properties for DAPREST

Main characteristics	Test method	Property values	Test values for a DAMID 180 sample (1,00 mm, Gr1)
<b>Thermal properties</b>			
Heat shock	IEC 60851 - 6.3	≥ 200°C	≥ 200°C
Cut-trough	IEC 60851- 6.4	≥ 230°C	≥ 240°C
Temperature index	IEC 60172	≥ 180°C <sup>1)</sup>	≥ 180°C <sup>1)</sup>
<b>Electrical properties</b>			
Conductor resistance	IEC 60851 - 5.3	0,01709 Ωmm <sup>2</sup> /m	0,01709 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>	6,7 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.	1 x Ø	1 x Ø
Adherence	IEC 60851-3.5	Jerktest <sup>5)</sup>	No loss of adhesion
		Peeltest <sup>6)</sup>	min. 110 <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.

## Approximate solder time, independent of grade



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

dahréntråd | isodraht | śląska | 利里达尔电磁线  
liljedahl winding wire