



SINOALUM ELTSOL 180

Round enamelled winding wire of copper, solderable, class 180

Product name:

Dasol 180 - Gr 1
Dasol 180 - Gr 2

Specifications:

IEC 60317-51

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:

Basecoat: Polyurethane

Properties:

- Suitable in high speed winding machines
- Directly solderable
- Very short soldertime
- Excellent mechanical resistance

Field of application:

- Small motors and transformers
- Solenoid coils
- Relays

Dimension range:

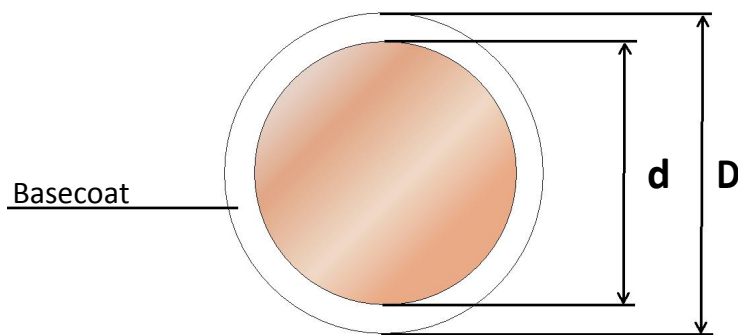
Etsol 180 - Gr 1	$0,200 \leq \varnothing \leq 2,000$ mm
Etsol 180 - Gr 2	$0,200 \leq \varnothing \leq 2,000$ mm

Standard packaging:

$0,200 \leq \varnothing \leq 2,000$ mm A250/400

Shelf life:

8 years, under normal ambient conditions



$D - d = \text{Increase}$

Properties for ETL SOL 180

Main characteristics	Test method	Property values	Test values for a DASOL 180 sample (1,00 mm, Gr1)
Thermal properties			
Heat shock	IEC 60851 - 6.3	≥ 200°C	≥ 200°C
Cut-through	IEC 60851- 6.4	≥ 230°C	≥ 240°C
Temperature index	IEC 60172	≥ 180°C ¹⁾	≥ 180°C ¹⁾
Electrical properties			
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⁾	6,7 kV
Mechanical properties			
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⁾	1 x Ø
		Stretching ⁴⁾	min. 32%
Adherence	IEC 60851-3.5	Jerktest ⁵⁾	No loss of adhesion
		Peeltest ⁶⁾	min. 110 ⁷⁾

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

