

SINOALUM ELT200

Round enamelled winding wire of copper, heat resistant, class 200

Product name:

- ELT 200 - Gr 1
- ELT 200 - Gr 2
- ELT 200 - Gr 3

Specifications:

IEC 60317-13

Class: 200

Temperature index ≥ 200 °C
Heat shock: ≥ 220 °C

Conductor material:

- EN 1977 - ETP1 CW003 A
- EN 1977 - ETP CW004A
- ASTM B49 - ETP C11000/C11040

Insulation:

Basecoat: THEIC-modified polyester or polyesterimide
Overcoat: Polyamide-imide

Properties:

- High heat resistance
- Suitable for winding in high speed machines
- Very good resistance to transformer oils
- Very good resistance to typical solvent
- Freon resistant
- Excellent resistance to mechanical stress

Field of application:

- Electric motors
- Transformers
- All kind of coils
- Ballasts
- Electric devices

Dimension range:

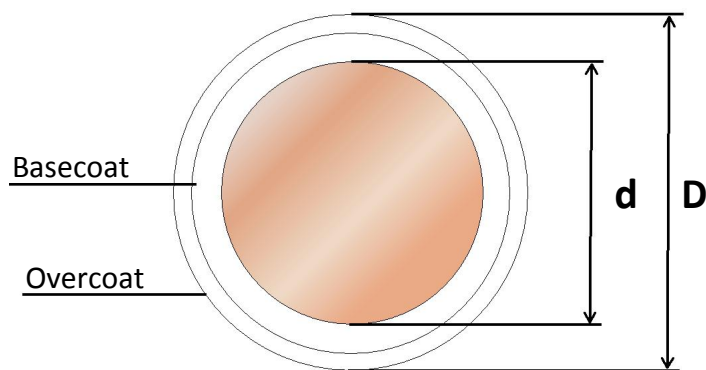
ELT 200 - Gr 1	$0,090 \leq \varnothing \leq 6,00$ mm
ELT 200 - Gr 2	$0,090 \leq \varnothing \leq 6,00$ mm
ELT 200 - Gr 3	$0,355 \leq \varnothing \leq 6,00$ mm

Standard packaging:

K355, K500, A250/400, A315/500, A400/630,
depending on dimension and grade

Shelf life:

6 years, under normal ambient conditions



D - d = Increase

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Properties for ELT 200

Main characteristics	Test method	Acceptance criteria	Test values for a Damid 200 sample (1,00 mm, Gr2)
Thermal properties			
Heat shock	IEC 60851 - 6.3	≥ 220 °C	≥ 220 °C
Cut-through	IEC 60851 - 6.4	≥ 320°C	> 400 °C
Temperature index	IEC 60172	≥ 200 °C ¹⁾	≥ 200 °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⁾	7,0 kV
Mechanical properties			
Elongation	IEC 60851-3.3	IEC 60317-0-1 ²⁾	40%
Springiness	IEC 60851-3.4	Springiness ³⁾	45°
		Springback ⁴⁾	≤ 5°
Flexibility	IEC 60851-3.5	Mandrel wind. ³⁾	15 % + 1x∅
		Stretching ⁴⁾	min 32%
Adherence	IEC 60851-3.5	Jerktest ⁵⁾	OK
		Peeltest ⁶⁾	min. 110 ⁷⁾

1. According to supplier certificate

2. Values depend on dimension and grade

3. Up to an including 1,60 mm

4. Over 1,60 mm

5. Up to an 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.