

SINOALUM ELT SL 200

Round enamelled winding wire of copper, selflubricant, class 200

Product name:

ELT SL 200 - Gr 1
 ELT SL 200 - Gr 2

Specifications:

IEC 60317-13

UL approval:

Not approved

Class: 200

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

Conductor material:

EN 1977 - ETP1 CW003A
 EN 1977 - ETP CW004A
 ASTM B49 - ETP C11000/C11040

Insulation:

Basecoat: THEIC-modified polyester or polyesterimide
 Overcoat I: Polyamide-imide
 Overcoat II: Polyamide-imide (selflubricated)

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
- Solenoid coils
- Ballasts

Dimension range:

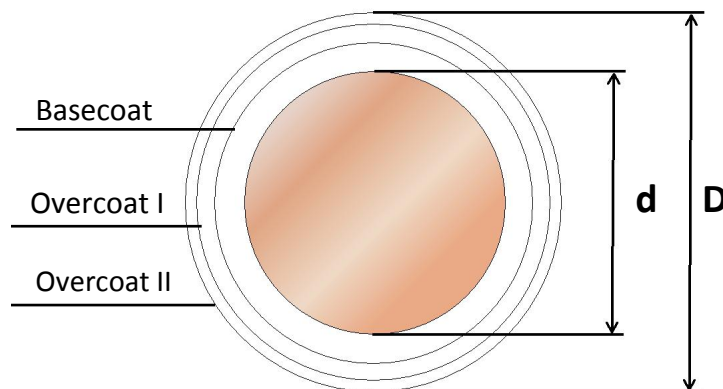
ELT SL 200 - Gr 1	$0,150 \leq \varnothing \leq 2,50$ mm
ELT SL 200 - Gr 2	$0,150 \leq \varnothing \leq 2,50$ mm

Standard packaging:

$0,150 \leq \varnothing \leq 2,50$ mm	A250/400, A315/500, A400/630
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Shelf life:

6 years, under normal ambient conditions



D - d = Increase

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Properties for ELT SL 200

Main characteristics	Test method	Acceptance criteria	Test values for a Damid SL 200 sample (1,00 mm, Gr2)
<u>Thermal properties</u>			
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⁾
<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⁾	> 6,0 kV
<u>Mechanical properties</u>			
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⁾
Friction coefficient	IEC 60851-3	-	< 0,10

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.