

SINOALUM ELT240

Round enamelled conductor of copper, heat resistant, class 240

Product name:

ETL 240 - Gr 1
ETL 240 - Gr 2

Specifications:

IEC 60317-46

UL approval:

Not approved

Class: 240

Temperature index: $\geq 240^{\circ}\text{C}$
Heat shock: 260°C

Conductor material:

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

Insulation:

Basecoat: Aromatic polyimid

Properties:

- Very high cut-trough temperature
- Excellent heat resistance
- Very good mechanical resistance

Field of application:

- Electric machines

Dimension range:

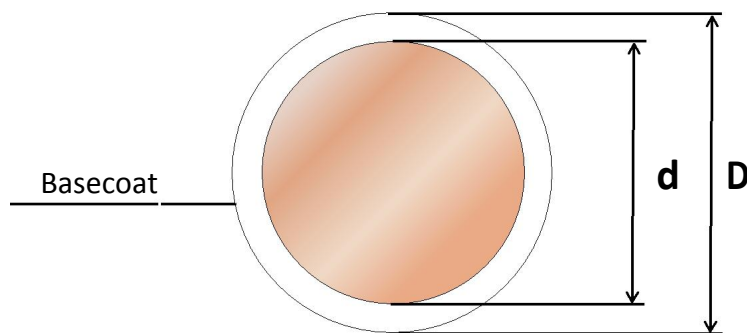
ELT 240 - Gr 1	$0,630 \leq \varnothing \leq 2,000 \text{ mm}$
ELT 240 - Gr 2	$0,630 \leq \varnothing \leq 2,000 \text{ mm}$

Standard packaging:

$0,630 \leq \varnothing \leq 2,000 \text{ mm}$	A400/630
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Shelf life:

10 years, under normal ambient conditions



D - d = Increase

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Properties for ELT 240

Main characteristics	Test method	Property values	Test values for a DAMID 240 sample (1,25 mm, Gr2)
Thermal properties			
Heat shock	IEC 60851 - 6.3	≥ 260°C	≥ 260°C
Cut-through	IEC 60851- 6.4	≥ 450°C	≥ 450°C
Temperature index	IEC 60172	≥ 240°C ¹⁾	≥ 240°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⁾	10,0 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 ∅
		Stretching ⁴⁾	min 32 %
Adherence	IEC 60851-3.5	Jerktest ⁵⁾	No loss of adhesion
		Peeltest ⁶⁾	min. 90 ⁷⁾

1. According to supplier certificate

2. Values depend on dimension

3. Up to and 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.