



PRODUCT INFORMATION



ERTHERM 200

round enamelled copper wire , winding wire
, magnet wire, class 180

Properties:

- Heat resistant
- Suitable for winding in high speed machines
- Tolerates mechanical stress during winding
- Good resistance to typical solvent

Field of application:

- Electric motors
- Transformers
- All kind of coils
- Ballasts
- Electric devices
- Oil-immersed transformers

UL approval:

Approved: ERTHERM 220
UL-file no: E304215

Certifications:

IATF 16949
ISO 9001,ISO 14001,OHSAS 18001
RoHS,REACH

Class: 180

Temperature index ≥ 180 °C
Heat shock: ≥ 200 °C

Conductor material:

Cu according to EN 1977/ASTM B49

Insulation:

Basecoat: THEIC- Polyester(-imide)

Product name:

ERTHERM 200 - Gr 1 / Single
ERTHERM 200 - Gr 2 / Heavy
ERTHERM 200 - Gr 3 / Triple

Specifications:

IEC 60317-8
MW74-C

Dimension range: IEC

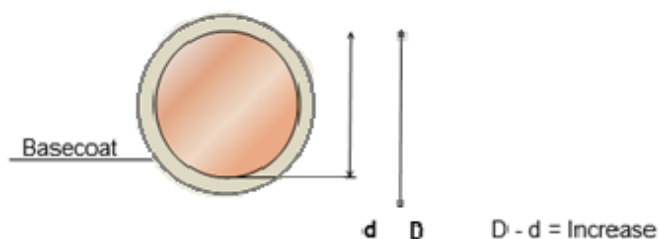
ERTHERM 200 Gr 1	$0,10 \leq \varnothing \leq 4,00$ mm
ERTHERM 200 Gr 2	$0,10 \leq \varnothing \leq 4,00$ mm
ERTHERM 200 Gr 3	$0,10 \leq \varnothing \leq 4,00$ mm

Dimension range: NEMA

ERTHERM 200 Single	$38 \leq \varnothing \leq 6$ AWG
ERTHERM 200 Heavy	$38 \leq \varnothing \leq 6$ AWG
ERTHERM 200 Triple	$38 \leq \varnothing \leq 6$ AWG

Shelf life:

6 years, under normal ambient conditions



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Properties for ERTHERM 200

Main characteristics	Test method	Acceptance criteria	Test values for a ERTHERM 200 sample (1,00 mm, Gr2)
Thermal properties			
Heat shock	IEC 60851 - 6.3	$\geq 200\text{ }^{\circ}\text{C}$	$\geq 200\text{ }^{\circ}\text{C}$
Cut-through	IEC 60851 - 6.4	$\geq 265\text{ }^{\circ}\text{C}$	$> 275\text{ }^{\circ}\text{C}$
Temperature index	IEC 60172	$\geq 180\text{ }^{\circ}\text{C}^{1)}$	$\geq 180\text{ }^{\circ}\text{C}^{1)}$
Chemical properties			
Solderability	IEC 60851-4.5	Not solderable	-
Resistance to Transformer oil	IEC 60851-4.6	IEC 60317-0-1	OK
Electrical properties			
Conductor resistance	IEC 60851 - 5.3	0,01709 $\Omega\text{mm}^2/\text{m}$	0,01709 $\Omega\text{mm}^2/\text{m}$
Conductivity	1/R	$> 58\text{ m}/(\Omega\text{mm}^2)$	$> 58\text{ m}/(\Omega\text{mm}^2)$
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⁾	37%
Springiness	IEC 60851-3.4 Springiness ³⁾	IEC 60317-0-1 ²⁾	38°
	Springback ⁴⁾	$\leq 5^{\circ}$	-
Flexibility	IEC 60851-3.5 Mandrel wind. ³⁾	0% elongation + 1xØ	15 % + 1xØ
	Stretching ⁴⁾	min 32%	-
Adherence	IEC 60851-3.5 Jerktest ⁵⁾	No loss of adhesion	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.



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The technical data included is up to date at the time of printing.
Erikoğlu reserve the right to make any amendments deemed necessary