



PRODUCT INFORMATION



ERAMIDE 220

round enamelled copper wire , winding wire ,
magnet wire, class 200

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

UL approval:

Approved: ERAMIDE 220

UL-file no: E304215

Certifications:

IATF 16949

ISO 9001,ISO 14001,OHSAS 18001

RoHS,REACH

Class: 200

Temperature index ≥ 200 °C

Heat shock: ≥ 220 °C

Conductor material:

Cu according to EN 1977/ASTM B49

Insulation:

Basecoat: THEIC- Polyester(-imide)

Overcoat: Polyamide-imide

Product name:

ERAMIDE 220 - Gr 1 / Single

ERAMIDE 220 - Gr 2 / Heavy

ERAMIDE 220 - Gr 3 / Triple

Specifications:

IEC 60317-13

MW35-C

Dimension range: IEC

ERAMIDE 220 Gr 1 $0,10 \leq \varnothing \leq 4,00$ mm

ERAMIDE 220 Gr 2 $0,10 \leq \varnothing \leq 4,00$ mm

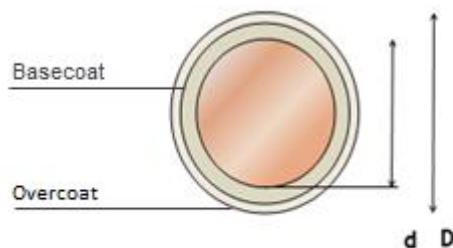
ERAMIDE 220 Gr 3 $0,10 \leq \varnothing \leq 4,00$ mm

Dimension range: NEMA

ERAMIDE 220 Single $38 \leq \varnothing \leq 6$ AWG

ERAMIDE 220 Heavy $38 \leq \varnothing \leq 6$ AWG

ERAMIDE 220 Triple $38 \leq \varnothing \leq 6$ AWG



D - d = Increase



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Properties for ERAMIDE 220

Main characteristics	Test method	Acceptance criteria	Test values for a ERAMIDE 220 sample (1,00 mm, Gr2)
Thermal properties			
Heat shock	IEC 60851 - 6.3	$\geq 220^{\circ}\text{C}$	$\geq 220^{\circ}\text{C}$
Cut-through	IEC 60851 - 6.4	$\geq 320^{\circ}\text{C}$	$> 400^{\circ}\text{C}$
Temperature index	IEC 60172	$\geq 200^{\circ}\text{C}^{(1)}$	$\geq 200^{\circ}\text{C}^{(1)}$
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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Erikoğlu reserve the right to make any amendments deemed necessary