



## PRODUCT INFORMATION



# ERAMIDE 240

round enamelled copper wire , winding wire ,  
magnet wire, class 220

### Properties:

- Excellent Heat resistant
- Suitable for winding in high speed machines
- Tolerates mechanical stress during winding
- Very good abrasion resistance

### Field of application:

- Automotive components
- Ballasts
- High thermal applications
- Hermetic compressors

### UL approval :

Not approved

### Certifications:

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

### Class: 200

Temperature index  $\geq 220$  °C  
Heat shock : 240 °C

### Conductor material:

Cu according to EN 1977/ASTM B49

### Insulation:

Basecoat: Polyamide-imide

### Product name:

ERAMIDE 240 - Gr 1 / Single

ERAMIDE 240 - Gr 2 / Heavy

### Specifications:

IEC 60317-57

### Dimension range: IEC

ERAMIDE 240 Gr 1  $0,10 \leq \varnothing \leq 4,00$  mm

ERAMIDE 240 Gr 2  $0,10 \leq \varnothing \leq 4,00$  mm

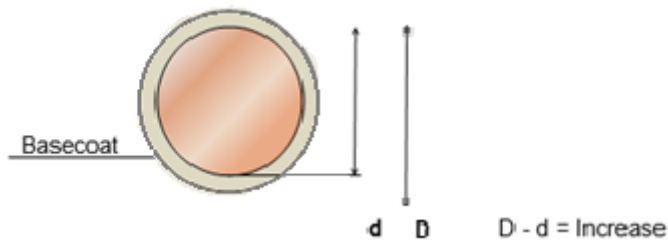
### Dimension range : NEMA

ERAMIDE 240 Single  $38 \leq \varnothing \leq 6$  AWG

ERAMIDE 240 Heavy  $38 \leq \varnothing \leq 6$  AWG

### Shelf life:

6 years, under normal ambient conditions



## ERAMIDE 240

round enamelled copper wire , winding wire , magnet wire, class 240

### Properties for ERAMIDE 240

| Main characteristics          | Test method                                | Acceptance criteria                         | Test values for a ERAMIDE 240 sample (1,00 mm, Gr2) |
|-------------------------------|--------------------------------------------|---------------------------------------------|-----------------------------------------------------|
| <b>Thermal properties</b>     |                                            |                                             |                                                     |
| Heat shock                    | IEC 60851 - 6.3                            | $\geq 240\text{ }^{\circ}\text{C}$          | $\geq 240\text{ }^{\circ}\text{C}$                  |
| Cut-through                   | IEC 60851 - 6.4                            | $\geq 350\text{ }^{\circ}\text{C}$          | $> 350\text{ }^{\circ}\text{C}$                     |
| Temperature index             | IEC 60172                                  | $\geq 220\text{ }^{\circ}\text{C}^{(1)}$    | $\geq 220\text{ }^{\circ}\text{C}^{(1)}$            |
| <b>Chemical properties</b>    |                                            |                                             |                                                     |
| Solderability                 | IEC 60851-4.5                              | Not solderable                              | -                                                   |
| Resistance to Transformer oil | IEC 60851-4.6                              | IEC 60317-0-1                               | OK                                                  |
| <b>Electrical properties</b>  |                                            |                                             |                                                     |
| Conductor resistance          | IEC 60851 - 5.3                            | $0,01709\text{ }\Omega\text{mm}^2/\text{m}$ | $0,01709\text{ }\Omega\text{mm}^2/\text{m}$         |
| 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 <sup>(2)</sup>                | 9.0 kV                                              |
| <b>Mechanical properties</b>  |                                            |                                             |                                                     |
| Elongation                    | IEC 60851-3.3                              | IEC 60317-0-1 <sup>(2)</sup>                | 36%                                                 |
| Springiness                   | IEC 60851-3.4 Springiness <sup>(3)</sup>   | IEC 60317-0-1 <sup>(2)</sup>                | 42°                                                 |
|                               | Springback <sup>(4)</sup>                  | $\leq 5^{\circ}$                            | -                                                   |
| Flexibility                   | IEC 60851-3.5 Mandrel wind. <sup>(3)</sup> | 1xØ                                         | 1xØ                                                 |
|                               | Stretching <sup>(4)</sup>                  | min 32%                                     | -                                                   |
|                               | IEC 60851-3.5 Jerktest <sup>(5)</sup>      | No loss of adhesion                         | OK                                                  |
|                               | Peeltest <sup>(6)</sup>                    | min. 75 <sup>(7)</sup>                      | -                                                   |

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