

MAGNETEMP® A-220

Properties

Magnetemp® A-220 has the following characteristics:

- temperature index of 225°C,
- good resistance to heat shock and high temperature overloads,

Insulation

Magnetemp® A-220 is a polyamide-imide enameled copper wire.

Application

Magnetemp® A-220 is designed for the following applications:

- winding of special motors (i.e: motors for windscreen wipers),
- special relays and special transformers,
- winding able to withstand radiation and therefore manufactured according to nuclear industry requirements.

Production range

The standards are:

Diameter: 0.132 to 1.25

Thickness: Grade 1 and Grade 2

Color: Natural

Characteristics

Magnetemp® A-220 fulfills the requirements of the following specifications:

IEC 60317-26

NEMA MW 81

Magnetemp® A-220 has an official approval by UL, class 220.

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Valeurs typiques d'un fil Magnetemp® A-220 mesurées selon les normes CEI 60 851		Typical values for a Magnetemp® A-220 sample according to IEC 60 851 standards	
Diamètre du conducteur	0,390	Conductor Diameter	
Diamètre sur émail	0,420	Overall Diameter	
Isolation de base	Polyamide-imide	Basecoat	
Principales caractéristiques		Main characteristics	
Indice de température	225°C	Thermal index	
Durée de vie de 5000 h à	245°C	5000 h life test	
Choc thermique	OK at 250°C	Heat shock	
Thermoplasticité	≥ 400°C	Cut through temperature	
Tension de claquage	≥ 1,5 IEC values	Breakdown voltage	
Flexibilité	15 % + 1 diam.	Flexibility	
Allongement	38 %	Elongation	
Tangente Delta	≥ 250°C	Tangent Delta	
Resistance aux agents chimiques	Very good	Chemical resistance	
Résistance à l'abrasion	Good	Resistance to abrasion	

These values are for information only.

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**THERMAL ENDURANCE GRAPH
- TEMPERATURE INDEX**

MAGNETEMP® A-220, without impregnation
Nominal diameter 0,800 mm
Increase in diameter due to the insulation 0,060 mm
Test voltage 700 V

