

MAGNETEMP® CA-200

MAGNETEMP® CA₂-200

Properties

Magnetemp® CA-200 has the following characteristics:

- temperature index of 210°C,
- good resistance to heat shock and high temperature overload,
- excellent mechanical characteristics and chemical, properties

Insulation

Magnetemp® CA-200 is a (THEIC) polyesterimide enamelled copper wire, overcoat with polyamide-imide.

Application

Magnetemp® CA-200 has the following characteristics:

- winding on high-speed automatic machines,
- winding that experience severe heat overloads as well as mechanical or chemical stress.

Main applications are found in motors, transformers and all coils designed for class H and higher products.

Production range

The standards are:

Diameter:	0.10 to 5 mm
Thickness:	Grade 1 and Grade 2
Color:	Natural

This product is also available as selflubricated wire, particularly designed for high-speed winding process:

Magnetemp® CA₂-200. This is silicone-free wire.

Characteristics

Magnetemp® CA-200 fulfils the requirements of the following specifications:

IEC 60317-13

NEMA MW 35/36

Magnetemp® CA-200 and **Magnetemp® CA₂-200** have an official approval by UL, class 200.

MAGNETEMP® CA-200

Valeurs typiques d'un fil Magnetemp® CA-200 mesurées selon les normes CEI 60 851	Typical values for a Magnetemp® CA-200 sample according to IEC 60 851 standards	
Diamètre du conducteur	0,400	Conductor Diameter
Diamètre sur émail	0,446	Overall Diameter
Isolation de base	Polyesterimide (THEIC)	Basecoat
Surcouche	Polyamide-imide	Overcoat
Principales caractéristiques		Main characteristics
Indice de température	210°C	Thermal index
Durée de vie de 5000 h à	230°C	5000 h life test
Choc thermique	Good at 240°C	Heat shock
Thermoplasticité	≥ 340°C	Cut through temperature
Tension de claquage	≥ 1,5 IEC values	Breakdown voltage
Flexibilité	15 % + 1 diam.	Flexibility
Allongement	37 %	Elongation
Tangente Delta	≥ 185°C	Tangent Delta
Resistance aux agents chimiques	Good	Chemical resistance

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Valeurs typiques d'un fil Magnetemp® CA-200 mesurées selon les normes CEI 60 851		Typical values for a Magnetemp® CA-200 sample according to IEC 60 851 standards	
Diamètre du conducteur	0,800	Conductor Diameter	0,800
Diamètre sur émail	0,873	Overall Diameter	0,873
Isolation de base	Polyesterimide (THEIC)	Basecoat	Polyesterimide (THEIC)
Surcouche	Polyamide-imide	Overcoat	Polyamide-imide
Principales caractéristiques		Main characteristics	
Indice de température	210°C	Thermal index	210°C
Durée de vie de 5000 h à	230°C	5000 h life test	230°C
Choc thermique	Good at 240°C	Heat shock	Good at 240°C
Thermoplasticité	≥ 340°C	Cut through temperature	≥ 340°C
Tension de claquage	≥ 1,5 IEC values	Breakdown voltage	≥ 1,5 IEC values
Flexibilité	10 % + 1 diam.	Flexibility	10 % + 1 diam.
Allongement	40 %	Elongation	40 %
Tangente Delta	≥ 185°C	Tangent Delta	≥ 185°C
Resistance aux agents chimiques	Good	Chemical resistance	Good

These values are for information only.

THERMAL ENDURANCE GRAPH - TEMPERATURE INDEX

MAGNETEMP® CA-200, without impregnation
Nominal diameter 0,400 mm
Increase in diameter
due to the insulation 0,034 mm
Test voltage 400 V

