

# MAGNETEMP® CA-200

## MAGNETEMP® CA<sub>2</sub>-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® CA<sub>2</sub>-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® CA<sub>2</sub>-200** have an official approval by UL, class 200.

### MAGNETEMP® CA-200

Valeurs typiques d'un fil <b>Magnetemp® CA-200</b> mesurées selon les normes CEI 60 851	Typical values for a <b>Magnetemp® CA-200</b> 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
<b>Principales caractéristiques</b>		<b>Main characteristics</b>
Indice de température	<b>210°C</b>	Thermal index
Durée de vie de 5000 h à	<b>230°C</b>	5000 h life test
Choc thermique	<b>Good at 240°C</b>	Heat shock
Thermoplasticité	<b>≥ 340°C</b>	Cut through temperature
Tension de claquage	<b>≥ 1,5 IEC values</b>	Breakdown voltage
Flexibilité	<b>15 % + 1 diam.</b>	Flexibility
Allongement	<b>37 %</b>	Elongation
Tangente Delta	<b>≥ 185°C</b>	Tangent Delta
Resistance aux agents chimiques	<b>Good</b>	Chemical resistance

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

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

