ESSEX
A DIVISION OF SUPERIOR ESSEX

MAGNETEMP® CA-200
MAGNETEMP® CA_2-200

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_2-200**. 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_2-200** 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
Diamètre sur émail	0,873	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	**10 % + 1 diam.**	Flexibility
Allongement	**40 %**	Elongation
Tangente Delta	**≥ 185°C**	Tangent Delta
Resistance aux agents chimiques	**Good**	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