

Product Round aluminum C200 PLUS

Features

Section: Round

Material: Aluminum

Thermal class: 220

Enamel polymer:

PEI+AI Grades: 1-2

Diameters: 0,236-6,00 mm

It is an enamelled wire with high mechanical, thermal and chemical properties. Structurally, the wire consists of a POLYESTER or POLYESTER-IMIDE base varnish and a POLYAMIDE-IMIDE top layer. Each layer of varnish gives the final wire excellent properties for the industry.

Mechanically, its stand-out features are its excellent resistance to abrasion, flexibility (meaning it is capable of withstanding demanding deformations, stretching and crushing in final processes), and low friction coefficient, which allows the wire to be worked on at high winding speed without damaging the insulating layer.

Thermally, the wire is capable of withstanding high working temperatures and occasional overloads. Chemically, the wire is compatible with most commercial impregnation resins and oils, coolants and cleaning fluids.

Despite being a complete wire, there may be applications that require a specific improvement, which is why we have a qualified technical team to study specific cases and prepare a project tailored to any need.



Application

For electric motors, compressors, transformers, moto pumps, control equipment.



standard

CEI / DIN EN 60317-25
NEMA MW36-A
UL E93551



Range and grade

Grades: 1-2
Diameters: 0,236-6,00 mm

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Technical Specifications

Mechanical Properties

Parameter	Unit	Point IEC	Test conditions	IEC Value	Actual value (Ø3,35mm)
Conductor diameter	mm	4.1	-	3,514 - 3,586	or within the range defined by customer
Overall diameter	mm	4.3	-	3,636 - 3,679	or within the range defined by customer
Elongation	%	6	-	15	20
Springiness	grades	7.1	-	Not applicable	-
Flexibility and adherence	-	8	-	15 %	Ø6,70mm
Resistance to abrasion	N	11	-	9.3	-
Sliding force	gr	-	-	-	-
Peel test	Turns	8	-	-	-

Electrical properties

Parameter	Unit	Point IEC	Test conditions	IEC value	Actual value (Ø3,35mm)
Breakdown voltage	V	13.2	Steel ball bath	2500	4000
Electrical Conductivity	MS/m	5	-	35,5 - 36,2	≥35,85
Continuity of insulation	Fault	14	-	-	-

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The information in this data sheet is based on information provided by our supplier. It does not represent any specification or agreement with respect to conditions or properties. The values indicated are standard values. Deviations from these values due to production and application cannot be excluded. The information in this data sheet is intended for use by experts at their own discretion and risk. We do not guarantee results, nor do we accept responsibility for the specifications stated or the results obtained based on the specifications. Please contact us for more detailed information. Non-toxic and toxic substances are listed in the safety data sheet.

Thermal properties

Parameter	Unit	Point IEC	Test conditions	IEC value	Actual value (Ø3,35mm)
Temperature index	°C	15	-	200	-
Dielectric dissipation factor (tg δ)	°C	-	-	-	200
Cut-through	°C	10	-	-	-
Heat shock	-	9	220° 30min	15 %	Ok

Chemical properties

Parameter	Unit	Point IEC	Test condition	IEC value	Actual value (Ø3,35mm)
Solderability	°C	17	-	Not applicable	Not applicable
Resistance to transformer oil	-	20	-	-	Yes
Resistance to refrigerants	-	16	-	-	Yes
Resistance to solvents	-	-	-	>H	4H
Heat bonding	-	-	-	-	-

Due to the diversity of individual applications, we cannot make any general commitment regarding compatibility. We recommend testing compatibility with the materials used.



For further information:

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