



**YOUR WINDING
WIRE PARTNER**





NEW FACTORY EXPANSION

We are proud to announce the expansion of our production facilities with a brand-new building spanning 4.000 square meters. This expansion adds a potential of 20.000 metric tons of additional capacity, reinforcing our ability to meet growing global demand for high-quality enamelled wires.

THE FUTURE IS ACEBSA

SUPPORTING GROWTH

This significant expansion positions our company for continued growth, enabling us to better serve existing customers while expanding into new markets and applications. It reflects our commitment to long-term investment in technology, quality, capacity and innovation.

NEW CAPACITY FOR ALUMINUM DRAWING

Acebsa continues to strengthen its industrial capabilities through strategic vertical integration. By the end of 2027, new-generation aluminum drawing machinery will be installed at our new facilities, incorporating a critical process directly into our value chain with an annual capacity of 6.000 tonnes.

STATE-OF-THE-ART MACHINERY

The new facility is equipped with the latest machinery and production technologies, improving manufacturing efficiency, precision, and production quality. Significant investment has been made to ensure our operations remain at the forefront of enamelled wire production.



The new factory building, together with the existing one, will provide Acebsa the chance to reach a total of 55.000 TNs of capacity in the nearby future, making it the biggest factory of enamelled conductors in Europe.

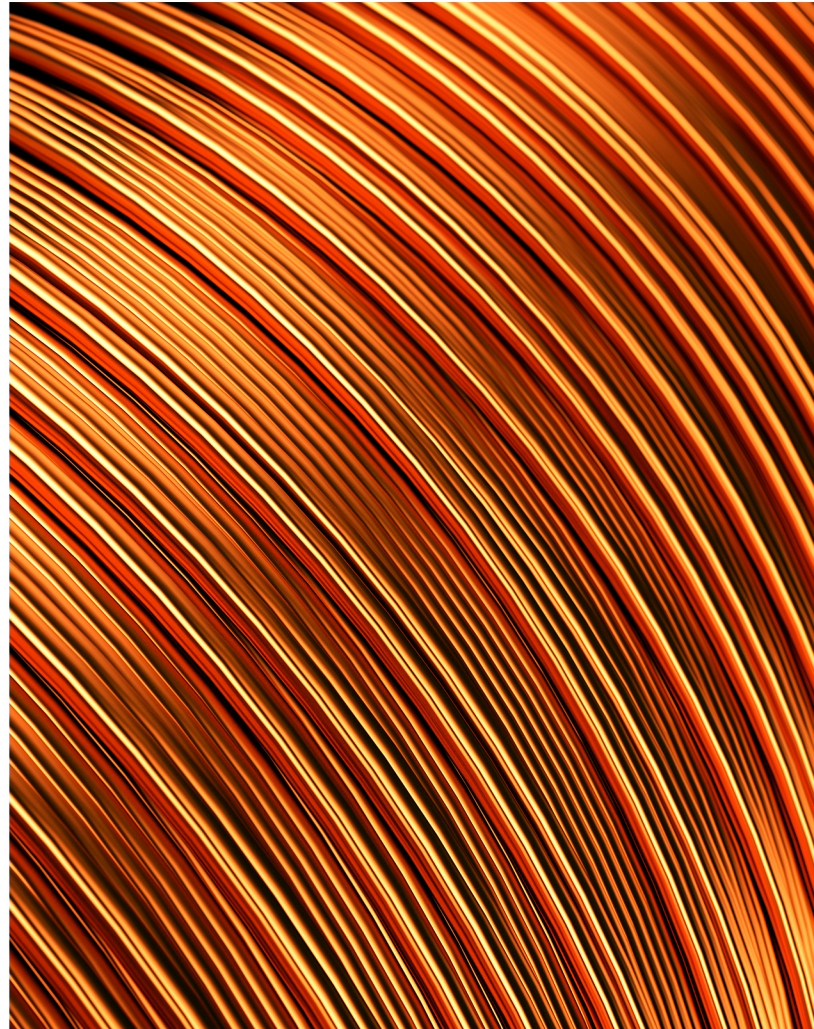
A GLOBAL ENAMELLED WIRE SUPPLIER

With advanced production capabilities, consistent quality standards and a strong international supply network, we support global OEMs and Tier 1 suppliers across automotive, energy, industrial and renewable energy sectors.

Our experience, reliability, and customer focused approach ensure the delivery of high-performance wires and long-term relationship with our customers.

With the largest product portfolio of enamelled wires and 44.000 TNs of annual capacity, Acebsa is currently supplying all 5 continents.

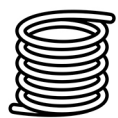
As your global enamelled wire supplier, we deliver high-quality, reliable enamelled wire solutions to customers worldwide, directly through Acebsa or through one of our many distributors across the globe.



Round copper wires: range of diameters from 0,15mm to 6,00mm and over 20 different varnish combinations.



Flat copper wires: with a range of 2mm² up to 100mm² which covers all range of applications, from EVs to high power generators.



Aluminum wires: round wires from 0,30mm to 8,00mm and flat wires under demand. New development for flat wires for EVs.

In order that our products reach smaller customers, Acebsa partners with distributors all around the world.

This includes Suelco, a company which is part of the group and has presence in Spain and France.

SUELCO

OUR HISTORY: 75 YEARS OF EXCELLENCE



"Always listen carefully to your customers. Don't wait for them to ask, offer them solutions first"

JOSÉ MARÍA BREGANTE CASTELLÁ
(11/04/1920 -17/12/2011)

"Enamelled winding wire is the hear of the motor"

JOSÉ MARÍA BREGANTE VENTURA
(24/03/1951 -19/04/2014)

"My life's dream and determination is that this family company lives on and that future generations can increase our contribution to society"

JOSÉ MARÍA BREGANTE PERA
(04/09/1982 -)

1951

Foundation of Acebsa as an LLC company by José María Bregante and start of operations as well as the production of copper wires, mica insulations, ballasts and insulation sleeveings.

1973

Start of exports outside of Spain. At that time, Acebsa was already manufacturing and selling its own enamelling wire machines and varnishes all around Europe.

1988

Implementation of quality guidelines in all production steps, improving product uniformity and reducing defects, enhancing overall product quality. ISO 9002.

2000

Output capacity increase to 25.000 TNs/year and quality certifications QS 9000 and ISO/TS 16949, specifically designed for the automotive industry.

2006

Investment in new lines to increase output to 40.000 TNs/year, making Acebsa the biggest production site in Europe. ISO 14001 certification is awarded to the company.

2011

Start of sales of enamelled aluminium wires for the transformer sector. Investment in 8 lines to produce big diameters of enamelled copper wire for the Miliken Cable sector.

2015

Acebsa invests in 2 new lines to produce green bars for high-power generators. For the thin wires product range, Acebsa adds 4 new lines, doubling its overall capacity.

2019

Acebsa is awarded its first project of enamelled copper flat wire for the EV automotive sector. Industry 4.0 implementation, connecting all processes to our ERP system.

2026

Acebsa's 75th anniversary. The company's milestone comes with the inauguration of the new factory expansion, allowing a potential capacity increase to 55.000 TNs/year.

2030

The goal of Acebsa is to become leaders in sustainability and quality, driving the enamelling wire sector to the next level through R&D, CO2 reduction and AI implementation.

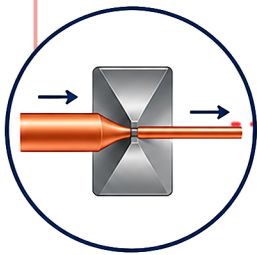
WHAT ARE MAGNET WIRES?

Magnet wires are insulated electrical conductors made of copper or aluminium, designed for winding coils that generate magnetic fields when electric current flows through them.

The production of magnet wire follows a controlled, multistage manufacturing process to ensure precise diameter, strong insulation, and reliable performance.

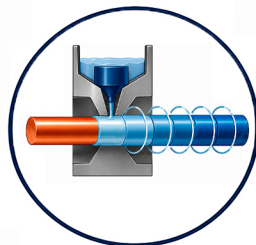
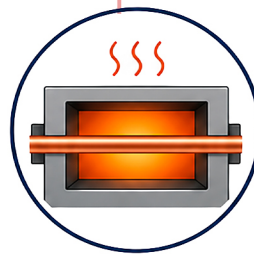
WIRE DRAWING

Copper or aluminum rods are drawn through a series of progressively smaller dies to reduce their diameter.



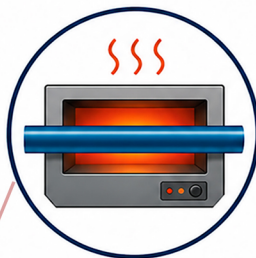
ANNEALING

The drawn wire is heat-treated to restore the ductility lost. This improves flexibility and other mechanical properties.



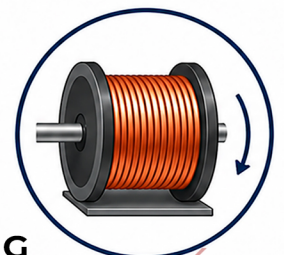
INSULATION COATING

The wire passes through liquid varnish, which is applied in multiple thin layers through calibrated enamelling dies.



CURING/BAKING

After each coating pass, the wire enters an oven where solvents are evaporated and the polymer is cross-linked.



WINDING

After the wire is fully enamelled, the winding process happens in-line, carefully placing every turn onto plastic spools.

MAIN APPLICATIONS



AUTOMOTIVE
SECTOR



INDUSTRIAL
MANUFACTURING



POWER
SYSTEMS



ENERGY
TRANSPORT



CONSUMER
APPLIANCES



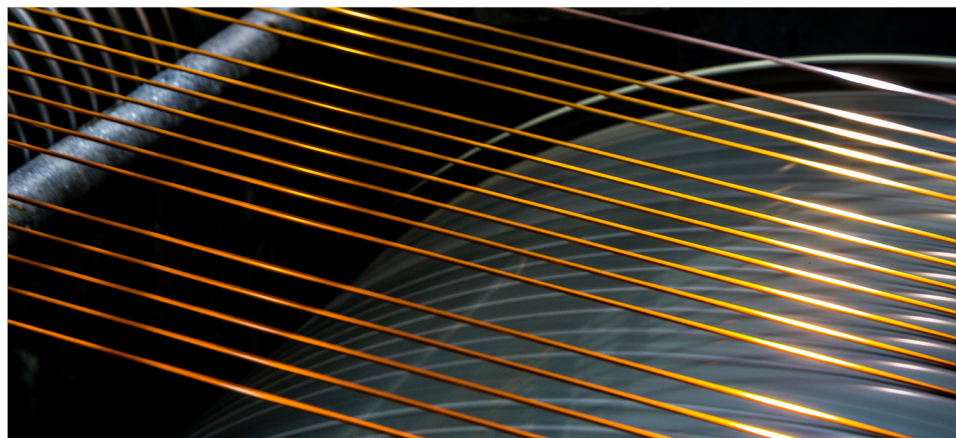
TRANSFORMER
SECTORS



RENEWABLE
ENERGY



HEAVY
EQUIPMENT



+250
ENAMELLING LINES



130 TN
EVERYDAY



210
EMPLOYEES



19000 M²
SITE

SUSTAINABLE ENAMELLED WIRE SOLUTIONS

Our sustainability strategy combines responsible sourcing, energy-efficient manufacturing, low-carbon product design, and transparent CO₂ reporting, delivering measurable value across our customers' supply chains.

Our CO₂ reduction initiatives focus on continuous improvement throughout the value chain, including the integration of recycled copper, the use of renewable energy, increased energy efficiency, waste reduction, and the optimisation of packaging and supply.

These initiatives contribute to reduced Scope 1 and Scope 2 emissions, while supporting OEM efforts to address Scope 3 emissions across the value chain.



RENEWABLE ENERGY:

The use of green energy has become a must for Acebsa, with a target by 2030 to achieve 100% renewable energy use for all of our processes.

LOW CO₂ RAW MATERIALS:

Search of alternative suppliers that can offer raw materials with a lower CO₂ footprint through partnerships and projects upstream

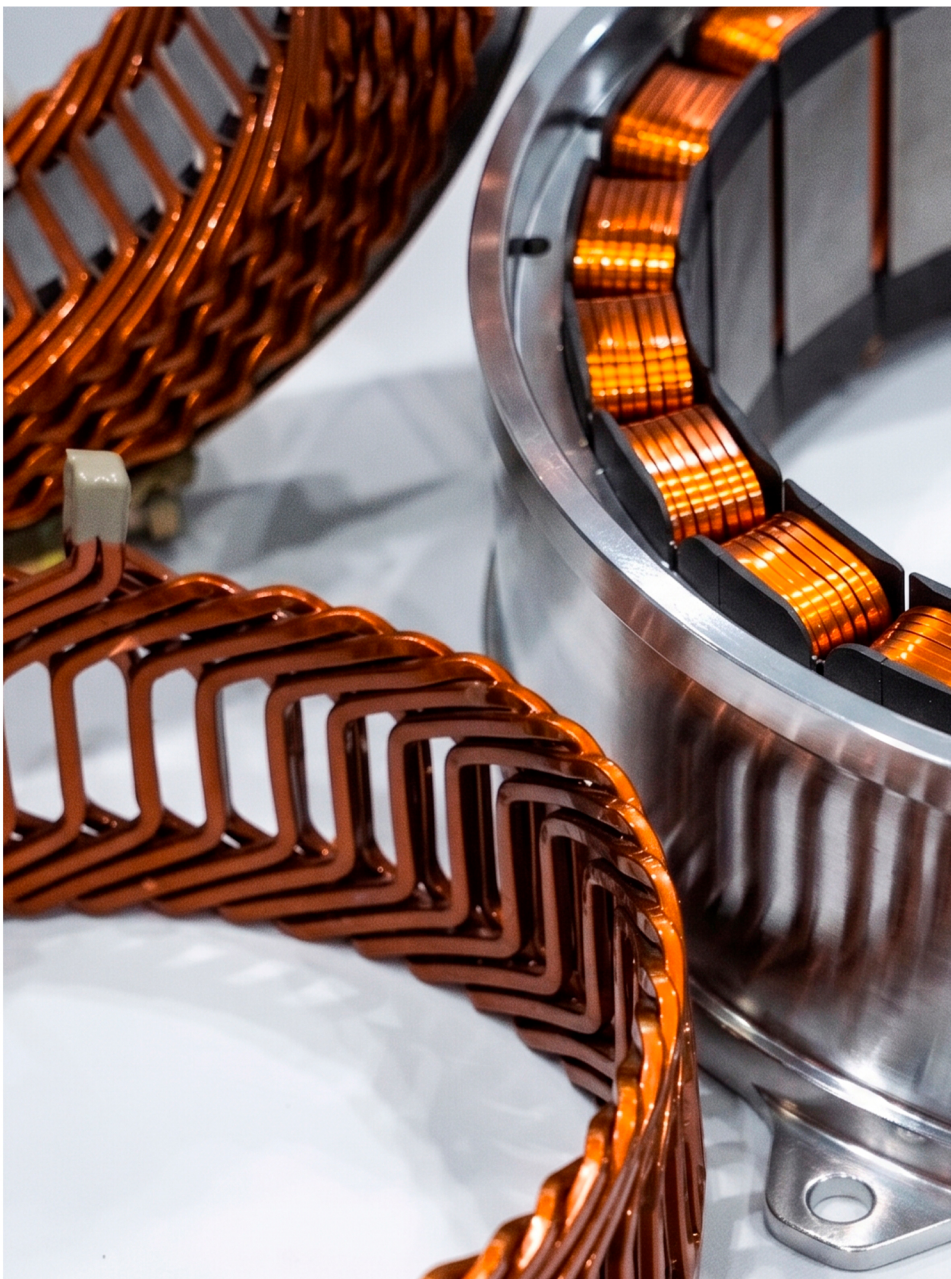
ENERGY EFFICIENCY

Acebsa has a specific department that dedicates solely to create initiatives to reduce energy consumption, reporting directly to management.

POWERING THE FUTURE

Electric vehicles demand materials that deliver maximum efficiency, reliability, and durability. Our enamelled wire solutions are specifically engineered to meet the rigorous performance requirements of modern electric drivetrains, supporting higher power density, improved thermal management, and long service life.

Our magnet wire solutions are used in traction motors and integrated e-axes, stators with hairpin and wave winding designs, and high-speed, high-torque electric drive units. Acebsa guarantees the highest-quality wires for any EV application, adapting to each customer's specific requirements.



24V / 48V SYSTEMS

Wire with PEI + PAI or PAI varnish, with a typical per side thickness of 50-70 microns for flat wire and 30-40 microns for round wire.

400V SYSTEMS

Flat wire with a typical per side thickness of 50-70 microns with potential different varnish combinations: PAI, PI or PAI+PI. Hairpin or wave winding process.

800V SYSTEMS

PDIV plays a key role at this voltage. That is why Acebsa can offer up to 150 microns per side thickness in flat wire, as well as corona resistance varnishes of PAI or PI.

QUALITY ASSURANCE & STANDARDS

QUALITY YOU CAN RELY ON

Our quality assurance system is built to ensure that every meter of enamelled wire consistently meets the highest technical and industry requirements, supporting demanding application across automotive, power, industrial and energy industries.

This is supported by our **5 pillars of quality assurance**



PROCESS STANDARDIZATION:

Documented procedures defining every step of the process to ensure every production run delivers the highest quality consistently.



PROCESS CONTROL:

Real-time monitoring of critical parameters such as conductor diameter, enamel thickness, temperature, and line speed keeping production stable.



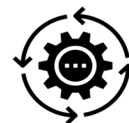
QUALITY INSPECTION:

Incoming, in-process, and final inspections verify that every wire meets electrical, mechanical, and dimensional requirements.



PROBLEM SOLVING:

When deviations occur, structured problem-solving methods identify the root cause rather than only addressing symptoms. Solutions are then implemented, validated, and standardized to prevent recurrence, ensuring product reliability and strengthening manufacturing processes.



CONTINUOUS IMPROVEMENT:

Data from production, inspection, and customer feedback drives ongoing improvement initiatives that enhance process capability, increase consistency, reduce waste, and strengthen long-term product quality.



ISO 9001 ISO 14001 IATF 16949 ISO 50001



PRODUCT RANGE

FLAT ENAMELLED COPPER WIRE

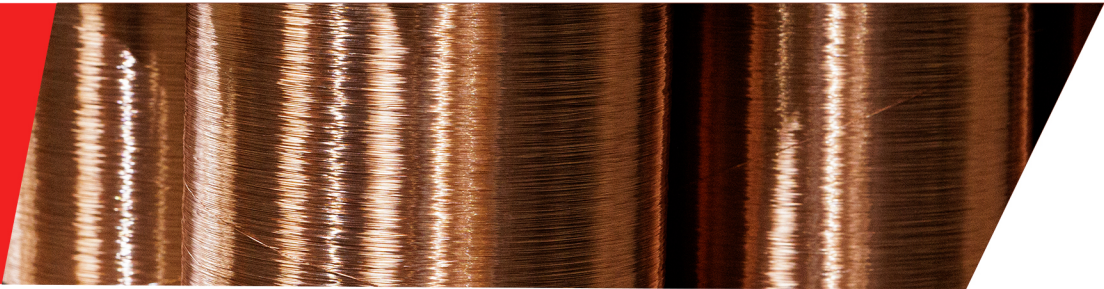
IBERFIL EV

IBERFIL	EVHC	EVC	EVCP1	EVPI
Thermal Class	200	220	220	240
Standards	Built-to-Print	Built-to-Print	Built-to-Print	Built-to-Print
Insulation				
- Base Coat	Primer (Optional)	Primer (Optional)	Primer (Optional)	Primer (Optional)
- Overcoat	Polyesterimide	Polyamideimide	Polyamideimide	Polyimide
- Top Coat	Polyamideimide	-	Polyimide	-
Max Thickness (per side)	150	150	130	130
Ratio	<1,3	<1,3	<1,3	<1,3
Voltage Suitability	24V - 400V	48V - 800V	48V - 800V	400V - 800V+
Corona Resistance	Available upon request	Available upon request	Available upon request	Available upon request
General Properties	Good thermal endurance for moderate to high thermal loads Balanced mechanical and abrasion resistance Standard resistance to automotive fluids Good flexibility and winding performance Reliable performance in standard EV duty cycles High PDIV	High thermal endurance under elevated temperatures High abrasion and cut-through resistance Strong chemical and refrigerant resistance Good processability with increased mechanical durability Improved durability under increased thermal and/or mechanical stress High PDIV	Excellent thermal aging resistance and long lifetime Very high resistance to mechanical and abrasion stress Enhanced resistance to chemical agents Designed for demanding inverter-driven winding applications Extended lifetime under cyclic thermal and electrical loads Very high PDIV	Outstanding thermal stability for extreme thermal loads Exceptional resistance to mechanical, thermal, and electrical stress Exceptional resistance to chemicals, radiation, and aggressive media Optimized for compact, high-power-density winding designs Maximum long-term reliability in severe operating environments Outstanding PDIV

PDIV = Partial Discharge Inception Voltage

ROUND ENAMELLED COPPER WIRE

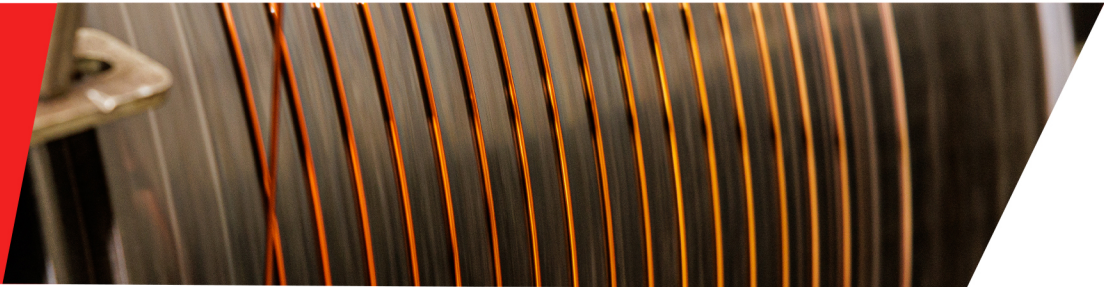
IBERFIL
SOLD



IBERFIL	SF	SFH	S	SH
Thermal Class	155	155	180	180
Standards	IEC 60317-20 NEMA MW79	IEC 60317-21 NEMA MW80	IEC 60317-51 NEMA MW82	IEC 60317-55 NEMA MW83
UL Approval	UL E - 103536	-	UL E - 103536	UL E - 103536
Insulation				
- Base Coat	Polyurethane	Polyurethane	Polyurethane	Polyurethane
- Overcoat	-	-	-	-
- Top Coat	-	Polyamide	-	Polyamide
Production Range				
Grade 1	Ø0,14-3,00	Ø0,14-3,00	Ø0,14-2,00	Ø0,14-2,00
Grade 2	Ø0,14-2,00	Ø0,14-2,00	Ø0,14-2,00	Ø0,14-2,00
Grade 3	-	-	-	-
General Properties	Directly solderable in a tin bath Very short soldertime Natural color Moderate thermal resistance Limited resistance to chemical agents	Directly solderable in a tin bath Very short soldertime Natural color Moderate thermal resistance Limited resistance to chemical agents Excellent windability and high filling factors	Directly solderable in a tin bath Short soldertime Natural color High thermal resistance Limited resistance to chemical agents	Directly solderable in a tin bath Short soldertime Natural color High thermal resistance Limited resistance to chemical agents Excellent windability and high filling factors

ROUND ENAMELLED COPPER WIRE

IBERFIL
THERM

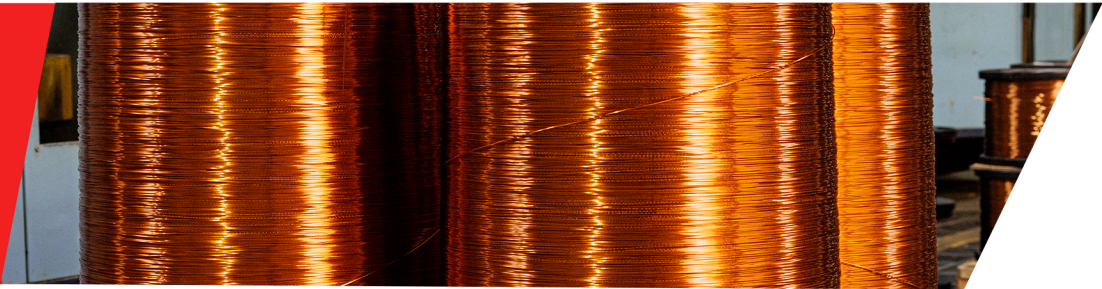


IBERFIL	H	HC	HCHD	HCSL	HCP
Thermal Class	180	200	200	200	220
Standards	IEC 60317-8 NEMA MW30	IEC 60317-13 NEMA MW35	IEC 60317-13 NEMA MW73	IEC 60317-13 NEMA MW 35/73	IEC 60317-13 NEMA MW37
UL Approval	ULE-103536	ULE-103536	ULE-103536	ULE-103536	ULE-103536
Insulation - Base Coat	Polyesterimide	Polyesterimide/PE	Polyesterimide/PE	Polyesterimide/PE	Polyesterimide/PE
- Overcoat	-	Polyamideimide	Polyamideimide	Polyamideimide	Polyamideimide
- Top Coat	PolyamideOptional*	-	-	Polyamideimide SL	-
Production Range					
Grade 1	Ø0,14-6,50	Ø0,14-6,50	Ø0,14-6,50	Ø0,14-6,50	Ø0,14-6,50
Grade 2	Ø0,14-6,50	Ø0,14-6,50	Ø0,14-6,50	Ø0,14-6,50	Ø0,14-6,50
Grade 3	Ø0,20-3,55	Ø0,20-3,55	Ø0,20-3,55	Ø0,20-3,55	Ø0,20-3,55
General Properties	High thermal resistace Very good resistance to chemical agents High resistance to mechanical stress High flexibility	Very high thermal resistace Excellent resistance to chemical agents Excellent resistance to mechanical stress	Very high thermal resistace Excellent resistance to chemical agents Excellent resistance to mechanical stress Improved freon resistance Improved resistance against refrigerant agents	Very high thermal resistace Excellent resistance to chemical agents Excellent resistance to mechanical stress Excellent windability and high filling factors	Improved thermal properties Excellent resistance to chemical agents Excellent resistance to mechanical stress

*IEC 60317-22

ROUND ENAMELLED COPPER WIRE

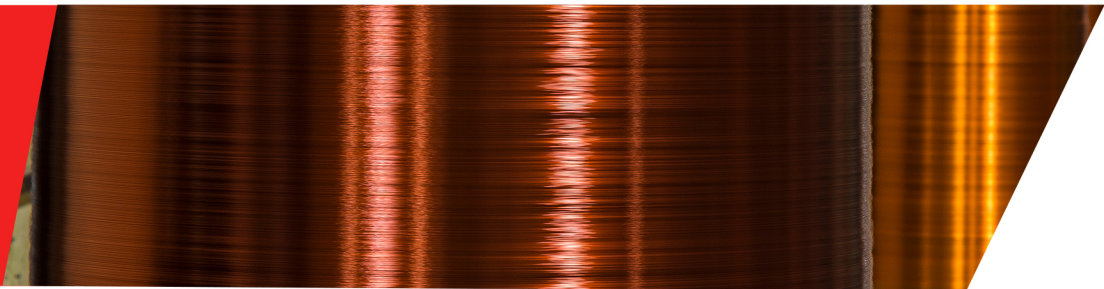
IBERFIL
BOND



IBERFIL	SFTV	HTV	HCTV
Thermal Class	155	180	200
Standards	IEC 60317-35 NEMA MW131	IEC 60317-37 -	IEC 60317-38 NEMA MW102
UL Approval	-	-	UL E-103536
Insulation			
- Base Coat	Polyurethane	Polyesterimide	Polyester/Polyesterimide
- Overcoat	-	-	Polyamideimide
- Top Coat	Aliphatic Polyamide	Aromatic Polyamide	Aromatic Polyamide
Production Range			
Grade 1	Ø0,224-1,80	Ø0,224-1,80	Ø0,224-1,80
Grade 2	Ø0,224-1,00	Ø0,224-1,00	Ø0,224-1,00
Grade 3	-	-	-
General Properties	Self-bonding, bondable at 180° C-220° C Reduced bonding time Superior gliding surface High filling factors Limited resistance to chemical agents Moderate thermal resistance Directly solderable in a tin bath Very short soldertime	Self-bonding, bondable at 180° C-220° C Reduced bonding time Superior gliding surface High filling factors Very good resistance to chemical agents High thermal resistance Excellent resistance to mechanical stress	Self-bonding, bondable at 180° C-220° C Reduced bonding time Superior gliding surface High filling factors Very good resistance to chemical agents Very high thermal resistance Excellent resistance to mechanical stress

ROUND ENAMELLED COPPER WIRE

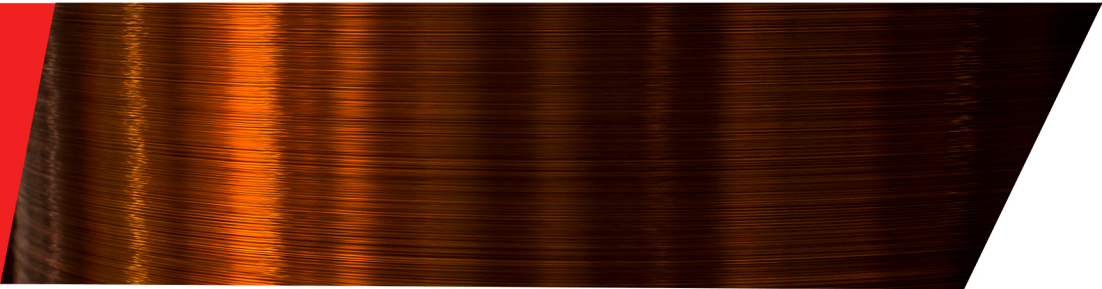
IBERFIL
FREQ



IBERFIL	HCAF	HCAFV	HC AFVG
Thermal Class	200	200	200
Standards	IEC 60317-13 NEMA MW35	IEC 60317-13 NEMA MW35	IEC 60317-13 NEMA MW35
UL Approval	UL E-103536	UL E-103536	-
Insulation			
- Base Coat	Polyesterimide	Polyesterimide with nanoparticles	Polyesterimide with nanoparticles
- Overcoat	Polyamideimide with mineral fillers	Polyamideimide	Polyamideimide with mineral fillers
- Top Coat	-	-	-
Production Range			
Grade 1	-	-	-
Grade 2	Ø0,40-2,00	Ø0,40-2,00	Ø0,40-2,00
Grade 3	-	Ø0,40-2,00	Ø0,40-2,00
General Properties	Excellent corona effect resistance High cut-through temperature Very high thermal resistance. Very good resistance to chemical agents Excellent resistance to mechanical stress Very good mechanical abrasion resistance Good partial discharges resistance	Excellent corona effect resistance High cut-through temperature Very high thermal resistance. Very good resistance to chemical agents Excellent resistance to mechanical stress Very good mechanical abrasion resistance Good partial discharges resistance	Excellent corona effect resistance High cut-through temperature Very high thermal resistance. Very good resistance to chemical agents Excellent resistance to mechanical stress Very good mechanical abrasion resistance Excellent partial discharges resistance

ROUND ENAMELLED COPPER WIRE

IBERFIL TEMP



IBERFIL	C	PI
Thermal Class	220	240
Standards	IEC 60317-57 NEMA MW81	IEC 60317-49 NEMA MW16
UL Approval	-	-
Insulation		
- Base Coat	Polyamideimide	Polyimide
- Overcoat	-	-
- Top Coat	-	-
Production Range		
Grade 1	Ø0,40-2,00	Ø0,50-2,00
Grade 2	Ø0,40-2,00	Ø0,50-2,00
Grade 3	-	-
General Properties	Excellent thermal resistance Excellent resistance to mechanical stress Excellent resistance to chemical agents	Maximum thermal resistace Very high mechanical resistance Very good resistance to chemical agents

BARE ROUND COPPER WIRE

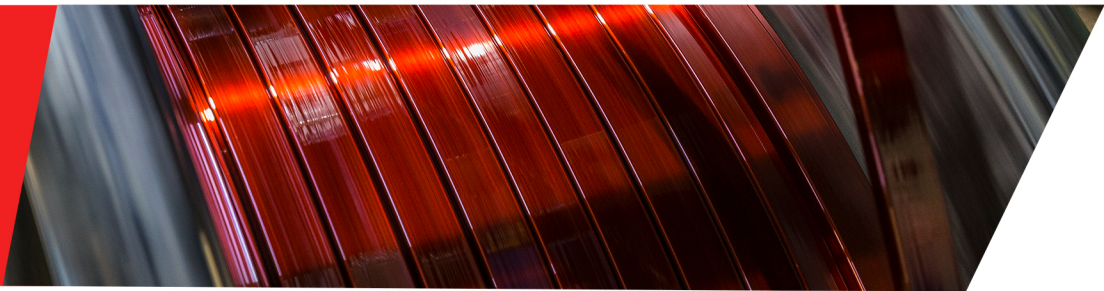
IBERFIL BARE



IBERFIL	CUD	CUR
Thermal Class	-	-
Standards	UNE EN13602 -	UNE EN13602 -
UL Approval	-	-
Insulation		
- Base Coat	-	-
- Overcoat	-	-
- Top Coat	-	-
Production Range	Ø0,20-6,00	Ø0,20-6,00
General Properties	Hard bare copper Conductivity >100 IACS Tensile strength > 340 N/mm ²	Annealed bare copper Conductivity >100 IACS Tensile strength > 200-280 N/mm ²

FLAT ENAMELLED COPPER WIRE

IBERFIL
THERM



IBERFIL	H	HC
Thermal Class	180	200
Standards	IEC 60317-28 -	IEC 60317-29 NEMA MW36
UL Approval	-	UL E-103536
Insulation - Base Coat - Overcoat - Top Coat	Polyesterimide - -	Polyester or Polyesterimide Polyamideimide -
Production Range		
Grade 1	Crosssection: max:95 mm ² /min:2mm ²	Crosssection: max:95 mm ² /min:2mm ²
Grade 2	Thickness: max:6,30 mm/min:1 mm	Thickness: max:6,30 mm/min:1 mm
Grade 3	Width: max:21,50 mm/min:2mm	Width: max:21,50 mm/min:2mm
General Properties	High thermal resistance Very good resistance to chemical agents Excellent resistance to mechanical stress	Very high thermal resistance Excellent resistance to chemical agents Excellent resistance to mechanical stress

FLAT ENAMELLED COPPER WIRE

IBERFIL TEMP



IBERFIL	C	PI
Thermal Class	220	240
Standards	IEC 60317-58 NEMA MW84-C	IEC 60317-47 NEMA MW20-C
UL Approval	-	-
Insulation		
- Base Coat	Polyamideimide	Polyimide
- Overcoat	-	-
- Top Coat	-	-
Production Range		
Grade 1	Crosssection: max:95 mm ² /min:2mm ²	Crosssection: max:95 mm ² /min:2mm ²
Grade 2	Thickness: max:6,30 mm/min:1 mm	Thickness: max:6,30 mm/min:1 mm
Grade 3	Width: max:21,50 mm/min:2mm	Width: max:21,50 mm/min:2mm
General Properties	Excellent thermal resistance Excellent resistance to chemical agents Excellent resistance to mechanical stress	Maximum thermal resistance Very high resistance to chemical agents Very good resistance to mechanical stress

BARE FLAT COPPER WIRE

IBERFIL BARE



IBERFIL	CUD	CUR
Thermal Class	-	-
Standards	UNE EN13602 -	UNE EN13602 -
UL Approval	-	-
Insulation		
- Base Coat	-	-
- Overcoat	-	-
- Top Coat	-	-
Production Range	Crosssection: max:95 mm ² /min:2mm ² Thickness: max:6,30 mm/min:1 mm Width: max:21,50 mm/min:2mm	Crosssection: max:95 mm ² /min:2mm ² Thickness: max:6,30 mm/min:1 mm Width: max:21,50 mm/min:2mm
General Properties	Hard bare copper Conductivity >100 IACS Tensile strength > 340 N/mm ²	Annealed bare copper Conductivity >101 IACS Tensile strength > 200-280 N/mm ²

ROUND ENAMELLED ALUMINIUM WIRE

IBERAL THERM



IBERAL	AHC	AHC PT	AHC SL
Thermal Class	200	200	200
Standards	IEC 60317-25 NEMA MW35	IEC 60317-25 NEMA MW35	IEC 60317-25 NEMA MW35
UL Approval	ULE-103536	-	-
Insulation - Base Coat - Overcoat - Top Coat	Polyesterimide/Polyester Polyamideimide -	Polyesterimide/Polyester Polyamideimide -	Polyesterimide/Polyester Polyamideimide Polyamideimide SL
Production Range			
Grade 1	Ø0,30-8,00	Ø0,30-5,00	Ø0,30-5,00
Grade 2	Ø0,30-8,00	Ø0,30-5,00	Ø0,30-5,00
Grade 3	-	-	-
General Properties	Very high thermal resistance Excellent resistance to mechanical stress Very good resistance to chemical agents	Very high thermal resistance Excellent resistance to mechanical stress Very good resistance to chemical agents Very high adherence	Very high thermal resistance Excellent resistance to mechanical stress Very good resistance to chemical agents Excellent windability and high filling factors

FLAT ENAMELLED ALUMINIUM WIRE

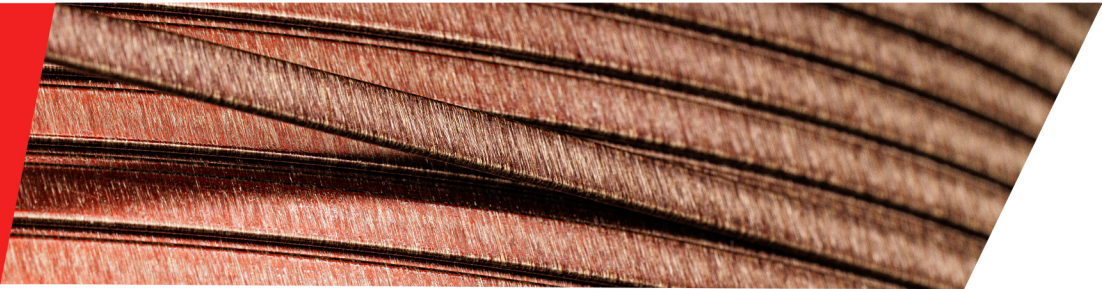
**IBERAL
THERM**



IBERAL	AHC
Thermal Class	200
Standards	IEC 60317-28 NEMA MW36
UL Approval	-
Insulation	
- Base Coat	Polyesterimide/Polyester
- Overcoat	Polyesterimide
- Top Coat	-
Production Range	
Grade 1	Crosssection: máx 90mm ²
Grade 2	mín: 10mm ²
Grade 3	Special diameters upon request
General Properties	Very high thermal resistnce Excellent resistance to mechanical stress Very good resistance to chemical agents

SPECIAL PRODUCTS

IBERFIL COV



IBERFIL/IBERAL CVF		CVH	CVD
Description	Glass/Polyester fiber wound, resin or varnish impragnated	Glass/Polyester fiber wound, resin or varnish impragnated	Glass/Polyester fiber wound without impragnation
Thermal Class	155	180	155
Standards			
Round Copper Wire	IEC 60317 - 70 - 2	IEC 60317 - 71	IEC 60317 - 70 - 1
Flat Copper Wire	IEC 60317 - 60 - 2	IEC 60317 - 61	IEC 60317 - 60 - 1
Round Aluminum Wire	-	-	-
Flat Aluminum Wire	-	-	-
Insulation Options	Single or double covering	Single or double covering	Single or double covering
Compatible Conductors	All IBERFIL and IBERAL round and flat wires	All IBERFIL and IBERAL round and flat wires	All IBERFIL and IBERAL round and flat wires
General Properties	Thermal resistance at constantly high temperatures Very good resistance to abrasion and scraping	Thermal resistance at constantly high temperatures Very good resistance to abrasion and scraping	Covering with high bonding strength Great resistance to abrasion and scraping

SPECIAL PRODUCTS

ACE BARS



ACEBARS - GREEN BARS

Thermal Class	155, 180 o 200
Standards	- -
UL Approval	-
Production Range	Minimum cross section of the insulated conductor: 4 x1 mm Maximum cross section of the insulated conductor: 10 x3,80 mm Number of conductors per half-bar: 80 Maximum conductor length of cutting: 10.000 mm± 2 mm Maximum number of crop/stamp locations: 180 °; 360 °; 540 ° Special Green Bars upon request
Compatible Conductors	All IBERFIL flat wires are compatible with this product
General Properties	Improved current distribution Reduced 'skin' effect Excellent resistance to mechanical stress and abrasion Special product indicated for generators over 28 MVA and for special motors (ring motors and hydro generators mainly)

INSULATION SLEEVINGS

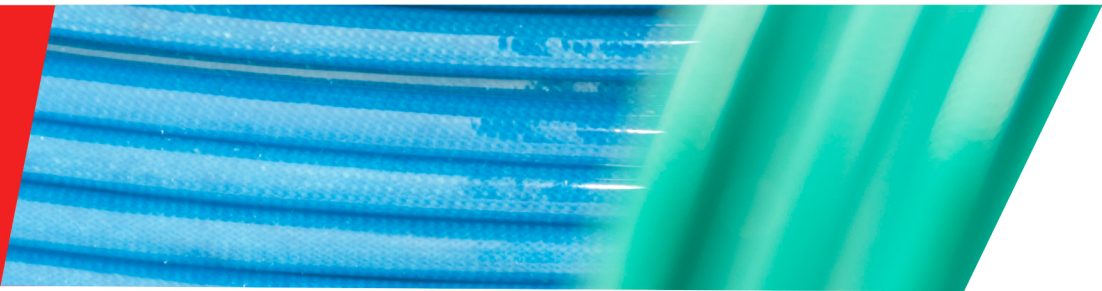
IBERSIL



IBERSIL	REC	PO1000	PO 4000
Description	Thermal treated braided fiberglass sleeving	Braided fiberglass sleeving impregnated with a special polyurethane varnish	Braided fiberglass sleeving impregnated with a special polyurethane varnish
Thermal Class	C-450	F-155	F-155
Standards	IEC 60684-3 Sheet 300 UL1441	IEC 60684-3 UL1441	IEC 60684-3 Sheet 409 UL1441 File: E-327791
Dielectric Strength	IEC 60684 > 0,9 Kv UL1441 > 0,9 Kv	IEC 60684 > 1 Kv UL1441 > 1 Kv	IEC 60684 > 4 Kv UL1441 > 4 Kv
Production Range	Ø0,50-18,00	Ø0,50-10,00	Ø0,50-20,00
General Properties	High temperature resistance Self-extinguishing Incombustible Halogen free Grey color	Highly Flexible Very good adherence between coat and fiberglass Yellow color	Highly Flexible Very good adherence between coat and fiberglass Natural color (other colors upon request)
Chemical Properties	Excellent chemical resistance to solvents Compatible with most insulating varnishes	Excellent chemical resistance to solvents Compatible with most impregnation varnishes	Good resistance to transformer oil ASTM n°2. Good compatibility with most Class F impregnation varnishes
Operating Temperature	-40°C to + 450°C in continuous Peaks at 550°C	-40°C to + 155°C in continuous Peaks at 175°C	-40°C to + 155°C in continuous Peaks at 175°C

INSULATION SLEEVINGS

IBERSIL



IBERSIL	EST	SI 4000	SI 7500
Description	Braided fiberglass sleeving impregnated with silicon varnish	Braided fiberglass sleeving impregnated with silicon resin	Braided fiberglass sleeving impregnated with silicon resin
Thermal Class	C-600	H-220	H-220
Standards	IEC 60684-3 UL 1441	IEC 60684-3 Sheet 400-402 UL 1441	IEC 60684-3 Sheet 400-402 UL 1441 File : E-233574
Dielectric Strength	IEC 60684 > 0,8 Kv UL 1441 > 0,8 Kv	IEC 60684 > 4 Kv UL 1441 > 4 Kv	IEC 60684 > 7,5 Kv UL 1441 > 7,5 Kv
Production Range	Ø0,50-18,00	Ø0,50-22,00	Ø0,50-22,00
General Properties	Self-extinguishing Incombustible Good fraying resistance Grey color	Highly Flexible Excellent dielectric strength Indicated for applications operating at high temperatures Natural color {other colors upon request)	Highly Flexible Excellent dielectric strength Indicated for applications operating at high temperatures Natural color {other colors upon request)
Chemical Properties	Excellent resistance to solvents Compatible with most insulating varnishes	Good resistance to ASTM oil n°2 Good compatibility with most class impregnation varnishes and resins	Good resistance to ASTM oil n°2 Good compatibility with most class impregnation varnishes and resins
Operating Temperature	40°C to +600°C in continuous	-40°C to +235°C in continuous Peaks at 300°C	-40°C to +235°C in continuous Peaks at 300°C



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