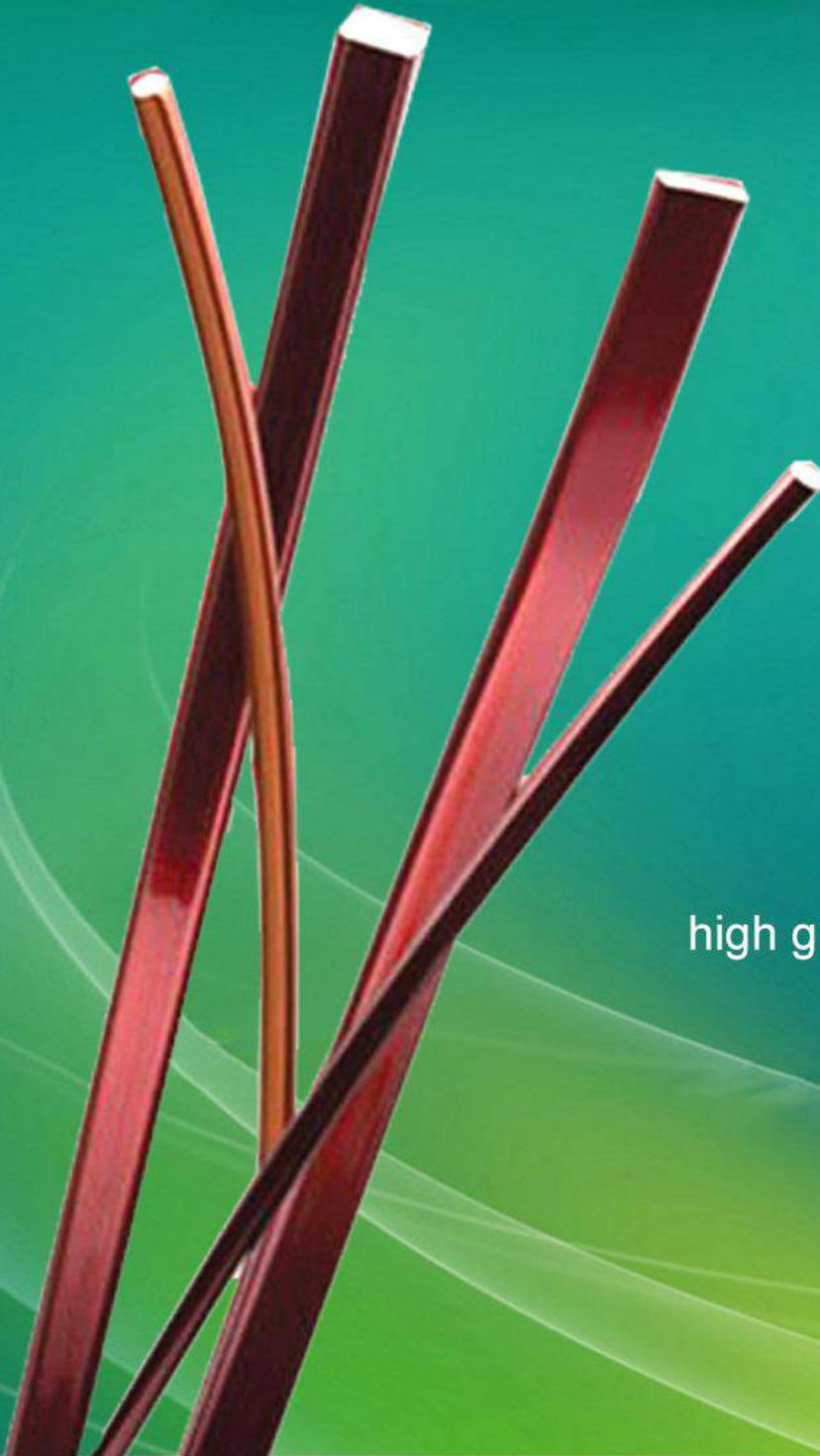


AWG-SWG

ENAMELED AL WINDING WIRES FOR ELECTRIC TRANSFORMERS



high grade insulation

AWG - SWG specifications Enameled AL Wire
For electrical transformer

LNPU
ZHENGZHOU LP INDUSTRY CO.,LTD

HIGH GRADE INSULATION



Zhengzhou LP Industry CO.,LTD is a leading enameled aluminum wire manufacturer in China, which is mainly producing the enameled round aluminum wire, flat aluminum wire and aluminum coils. LP Industry has the several experts to research the high temperature degree enameled wire, like 2.5mm*25mm 240℃ magnet wire.

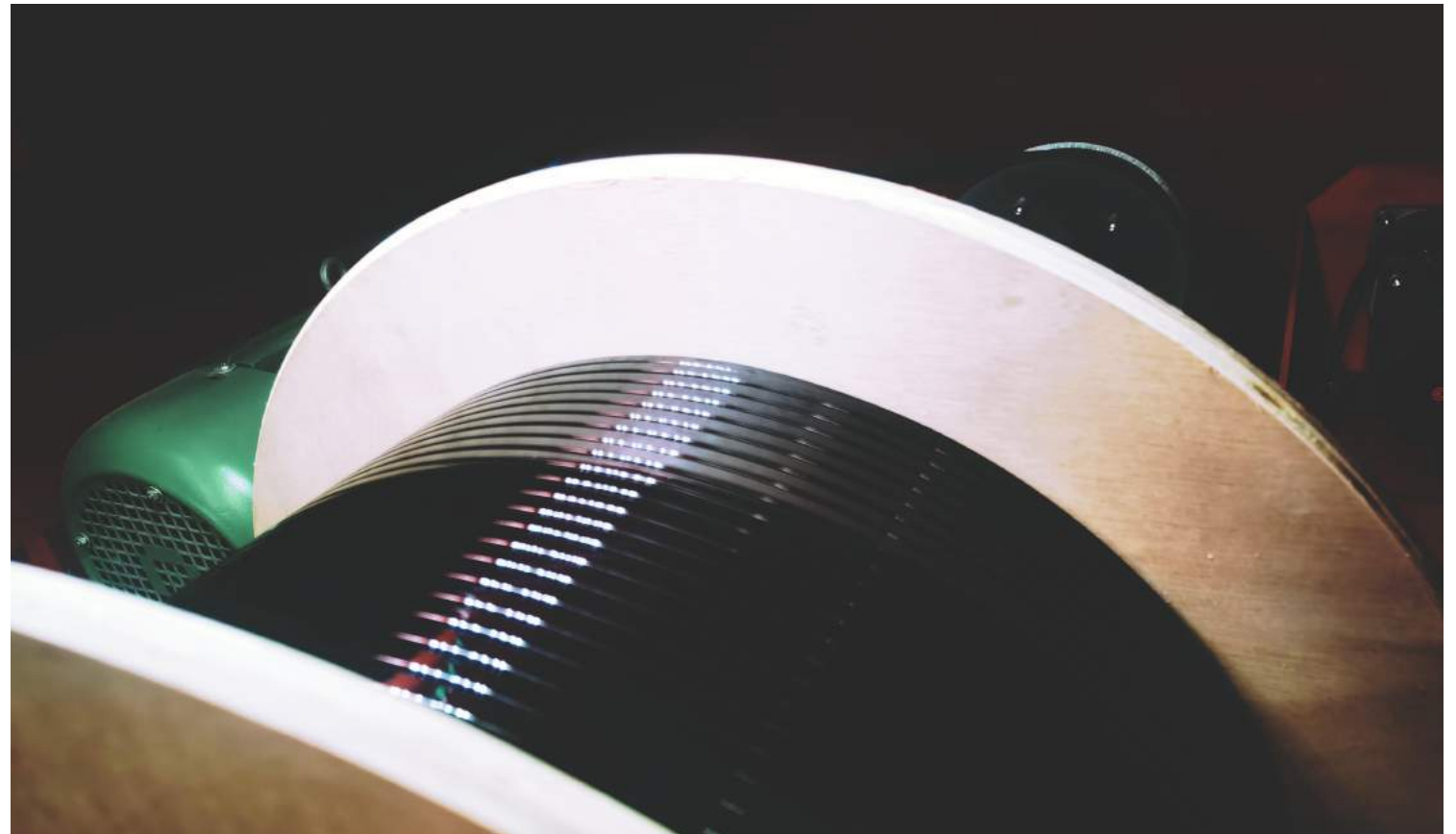
LP Industry is the professional magnet wire manufacturer in the world that produces the aluminum enameled wire in its own factory.

Thermal Class	Insulation types	NEMA Standard(MW1000)	IEC Standard	Federal Specification (Jw1177)
105°C	Plain Enamel	NONE	NONE	NONE
	Formvar	MW 15 (RD) MW 18 (SQ & RECT)	60317-1(RD) 60317-17(SQ & RECT)	JW 1177/ 14 (RD) JW1177/ 15 (SQ & RECT)
	Formvar Bondable	MW19	60317-5	JW 1177/6
130°C	Polyurethane Nylon Bondable – 130	NONE	NONE	NONE
155°C	Polyurethane – 155	MW79	60317-20	JW1177/ 41
	Polyurethane Nylon – 155	MW80	60317-21	JW1177/42
	Polyurethane Bondable – 155 Polyurethane Nylon Bondable – 155	MW131 MW 136	60317-35 NONE	NONE NONE
	Dacron Glass – 155	MW 45 (RD) MW 46 (SQ & RECT)	NONE(RD) 60317-60(SQ & RECT)	JW 1177/ 20 (RD) JW1177/ 25 (SQ & RECT)
180°C	Polyurethane – 180	MW82	60317-51	NONE
	Polyurethane Nylon – 180	MW83	60317-55	NONE
	Polyester-imide	MW30	60317-8	JW 1177/ 12
	Polyester-Nylon	MW76	60317-22	JW 1177/38
	Solderable Polyester	MW77	60317-23	JW 1177/39
	Solderable Polyester Nylon	MW78	NONE	JW 1177/ 40
	Polyurethane Bondable – 180 Polyurethane Nylon Bondable – 180	MW132 MW137	NONE NONE	NONE NONE

FOR ELECTRICAL TRANSFORMERS

180°C	Polyester-imide Bondable Polyester-amide-imide Bondable Solderable Polyester Bondable	NONE 60317-37 NONE	MW 102 60317-38 NONE	NONE 60317-36 NONE
	Dacron Glass High Temp	MW 51 (RD) MW 53 (SQ & RECT)	NONE(RD) 60317-61(SQ & RECT)	JW 1177/ 32 (RD) JW1177/ 34 (SQ & RECT)
200°C	Polyester – 200	MW74	60317-42	JW 1177/43
	Polyester A/I Topcoat	MW 35 (RD) MW 36 (SQ & RECT)	60317-13(RD) 60317-29(SQ & RECT)	JW 1177/ 14 (RD) JW1177/ 13 (SQ & RECT)
	Polyester A/I Polyamideimide	MW73	60317-13	NONE
240°C	Polyimide – ML	MW 16 (RD) MW 20 (SQ & RECT)	60317- 46(RD) 60317- 47(SQ & RECT)	JW 1177115 (RD) JW1177/ 18 (SQ & RECT)

UL certificate insulations



FOR ELECTRICAL TRANSFORMERS

APPLICATIONS

Typical Applications

Dry-type transformers, hermetic motors, tool motors, automotive alternator stators, solenoids, television high-voltage transformers, toroidal television yokes

PRODUCT DESCRIPTION

Features and Benefits

Super 200 includes a proprietary internal lubricating system to aid windability and insertion.

Tough abrasion-resistant surface which withstands automated winding operations.

Excellent dielectric performance and corona resistance.

Superior chemical and moisture resistance, especially with refrigerants in hermetic applications.

Superior thermal overload protection, especially during locked-rotor conditions.

Superior performance in hermetics.

Basecoat

High thermal endurance

High temperature dielectric

Resists thermoplastic flow

Excellent adhesion and flexibility

Topcoat

Heat shock resistant

Moisture resistant

Surface toughness

Chemical resistant

GENERAL INFORMATION

References are provided for comparative purposes

Round

Aluminum MW 35-A, MW 73-A

Square & Rectangular

NEMA: MW 36-C (Cu)

Round

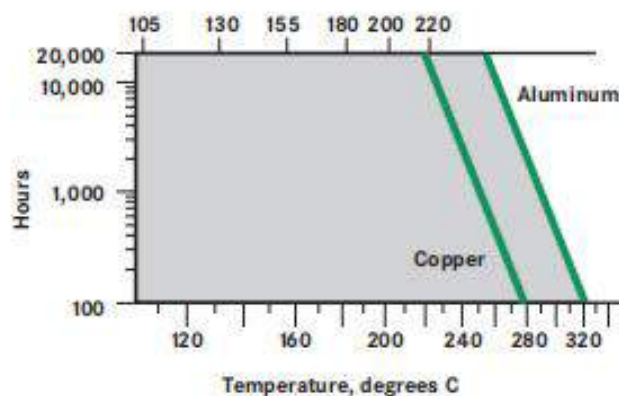
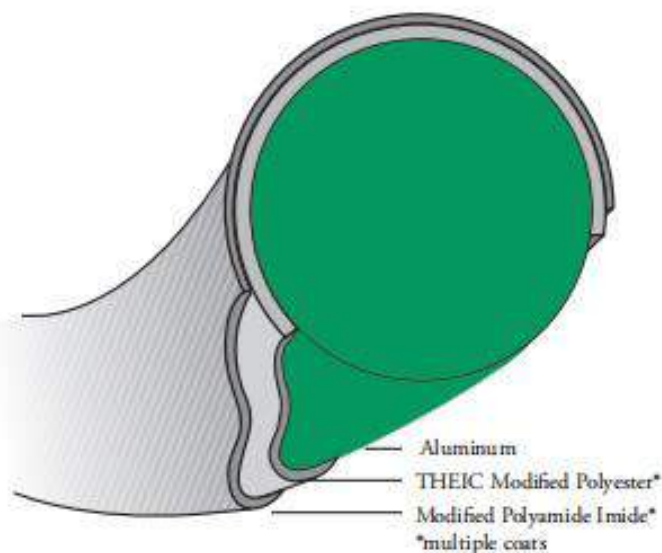
Aluminum

Single 14-27 AWG

Heavy 6-27 AWG

Measured Thermal Endurance

Expected Thermal Life (ASTM D 2307), 18 AWG, Heavy Build Insulation



ENAMELED ALUMINUM WIRE

APPLICATIONS

Typical Applications

Dry-type transformers, traction motors, DC field coils, submersible pump motors

Very high temperature coils and relays

Encapsulated coils

Hermetically sealed relays

PRODUCT DESCRIPTION

Thermal Class: 240

Extraordinary thermal and chemical stability

Highest overload resistance, cut thru resistance and operating temperature classification of any Rea film insulation

Exhibits high resistance to radiation

Minimum outgassing makes ML ideal for use in hermetically sealed coils and relays

Chemically compatible with the widest range of solvents, varnishes and encapsulating materials

FOR ELECTRICAL TRANSFORMERS

GENERAL INFORMATION

References are provided for comparative purposes

Round

NEMA: MW 16-C, MW 71-C

Square & Rectangular

NEMA: MW 20-C

Availability

Round

Single, Heavy 14-31 AWG

Square 2-10 AWG

Rectangular

Min width .162"

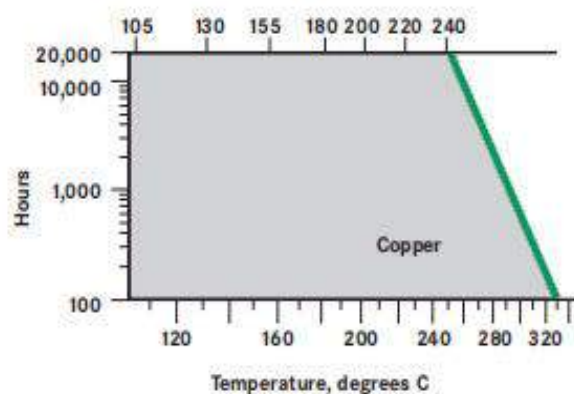
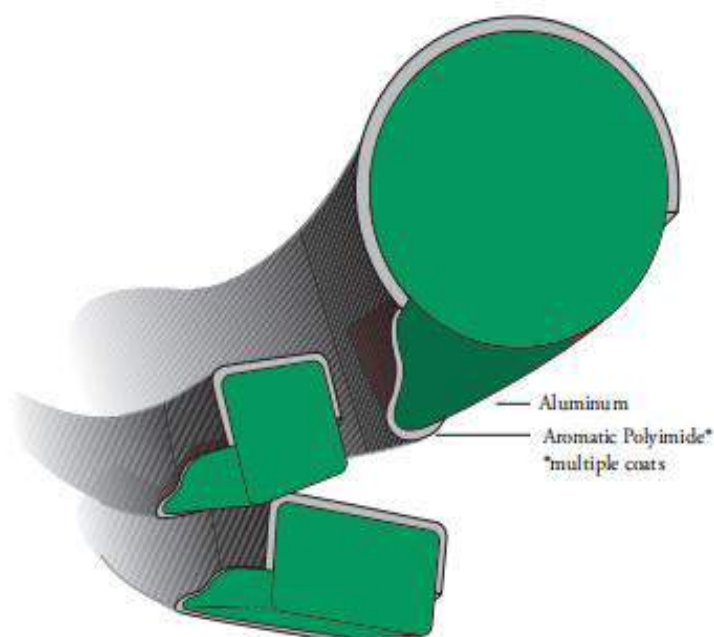
Max width .575"

Min thickness .061"

Max thickness .288"

MEASURED THERMAL ENDURANCE

18 AWG, Heavy Build Insulation



ENAMELED ALUMINUM FLAT WIRE

FOR ELECTRICAL TRANSFORMERS

LP Industry can produce custom round, square and rectangular wire in a well equipped, fully permitted manufacturing facility. Products offered include film insulated wire conforming to NEMA MW 1000 and IEC60317 in temperature classes 105 °C to 240°C, from single through double film builds. Low minimums, quick deliveries and top quality are our standards.



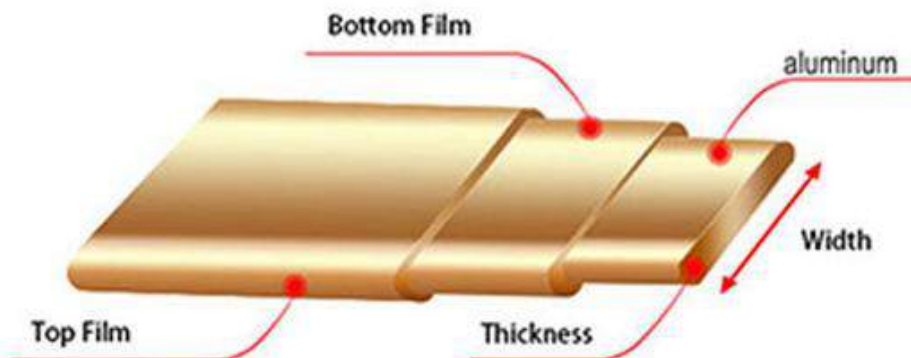
entering dies are used to apply smooth, concentric film coats to wires sizes 3mm*8.25mm and heavier. Application of the enamel on the wire. This is a very important process of enameling; during this phase the wire is charged with enamel through an enameling die equipped with a calibrated slot that pour the quantity of enamel on the wire necessary to get a correct polymerization.



Bare wire annealing. Annealing is a process at high temperature which aim to soften the copper and make it more malleable.



Coils winding. Once is ended the wire enameling, the wire is assembled in particular spools to be later on weighed and sold.



ENAMELED ALUMINUM FLAT WIRE

FOR ELECTRICAL TRANSFORMERS



LP Industry offers a wide variety of spool and reel sizes and types to choose from. It is normally about 27-30kg per roll, the range of 0.25-3.5mm round aluminum enameled wire is wound in plastic roll, the larger sizes adopted the wooden spool.

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Boxes and Cartons

LP Industry packages your product for delivery in a manner that insures you get your item safe and undamaged. LP Industry typically packages material using the “box inside a box” method. All of our premium interior boxes are made from recycled material and our interior “loose fill” packaging is made from a water-soluble starch.

Large Pallet Shipments

LP Industry is capable of handling your larger weight shipments as well. From as little as 100 lbs up to 2,000 lbs per pallet, we pride ourselves in our ability to securely palletize your order for delivery anywhere in the world. We use only the best quality of pallets (standard or treated wood and plastic) to insure a safe and undamaged pallet arrives at your facility.





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