

Enamelled Wire Specification Sheet

Magnet wire in copper or aluminium with enamel or polyurethane insulation.

Enamelled wire, also known as magnet wire or winding wire, made by coating a thin insulation layer of enamel or polyurethane over a copper or aluminium conductor. Flat conductor thickness runs from 0.8 to 5.6 mm and width from 2.00 to 16.00 mm at a 1.4:1 width ratio, with 130 polyester enamelled wire among the categories supplied. Conductors are available solid or stranded.

1 products in this category. Every figure below is published on the product pages at trueglowimaging.com/categories/enamelled-wire.html

Enameled Wire

Magnet Wire · Flat and round

Enameled wire, also known as magnet wire or winding wire, made by coating a thin insulation layer of enamel or polyurethane over a copper or aluminium conductor. The coating provides the electrical insulation that prevents short circuits between adjacent turns. Flat conductor thickness runs from 0.8 to 5.6 mm and width from 2.00 to 16.00 mm, at a width-to-thickness ratio of 1.4:1, with 130 polyester enameled wire among the categories supplied. Conductors can be solid or stranded.

Specification

Also Known As	Magnet wire, winding wire
Conductor Material	Copper or aluminium
Insulation Material	Enamel or polyurethane
Conductor Thickness	0.8 to 5.6 mm
Conductor Width	2.00 to 16.00 mm
Width Ratio	1.4:1
Flexibility	Solid or stranded
Product Category	130 polyester enameled wires among others

Key benefits

Insulation That Fits Between Turns. A thin enamel coating insulates without taking winding space. That is the whole reason magnet wire exists instead of insulated cable.

Flat and Round Conductors. Flat wire packs more copper into the same coil window than round wire. Both are made, so the coil design decides.

Copper or Aluminium Core. Copper for conductivity, aluminium for weight and cost. Both are used depending on the design requirement.

Thermal Class Stated. 130 polyester enameled wire is a defined thermal class. Insulation class is what determines the transformer's permitted operating temperature.

Where it is used

Transformer primary and secondary windings • Electric motor and generator windings • Inductor and choke manufacture • Rewinding motors and transformers in repair • Coil manufacture requiring flat conductor • Solenoid and relay coil production

How To Enquire

Send the process rather than a model number: capacity or flow rate, the product being handled, the container format where relevant, and the utilities already on site. WhatsApp +86 150 5517 9418 or email sales@trueglowimaging.com.

Minimum order is one unit on the process, packaging, utility and crane ranges. Machined, fabricated and moulded parts are quoted from single pieces upward.