

# API (Armoured Polyesterimide) 220°C

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<b>Enamel</b>	two layers: base coat polyesterimide, top coat polyamide-imide
<b>Insulation class</b>	220° C
<b>Wires</b>	diameters 0,50 - 3,15 (copper) coverings grade 1, 2, 3 standards IEC 317 - 13 / 1990

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API magnet wire is based on polyesteramide-imide resin designed for excellent high temperature performance.

API has all of the basic properties required for winding and performance plus added thermal characteristics rendering it suitable for continuous service up to 220°C

## Characteristics

- a. Thermal stability allows use at 220°C.
- b. Good windability.
- c. Very good heat shock resistance.
- d. High thermoplastic flow temperatures.
- e. Good overload resistance.
- f. Extremely high dielectric strength, even when exposed to moisture.
- g. Susceptible to solvent crazing (will self-heal).

## Typical Applications†

- Automotive alternators
- Ballasts (mercury)
- Distribution, and power transformers - class 220°C
- Open (fractional and smaller) motors hermetically and totally enclosed motors (fractional and smaller), and integral motors
- Start windings
- Generators
- Solenoid, and brake coils