

# MAGNEFORM® F-120

## MAGNEFORM® FN-120

### Properties

Magneform® F-120 has the following characteristics:

- temperature index of 120°C,
- designed to meet the standard requirements for enameled wires used in transformers,
- excellent resistance to oil,
- good abrasion resistance and good adhesion which enables the wire to resist the most severe conditions.

### Insulation

Magneform® F-120 is a polyvinyl acetal enameled copper wire.

### Application

Magneform® F-120 is designed for the following applications:

- oil filled and chlorinated dielectric transformers,
- dry-type transformers and electrical coils designed to class A and E.

### Production range

The standards are:

Diameter:	0.6 to 5 mm
Thickness:	Grade 1 and Grade 2
Color:	Natural

This product can be ordered with polyamide overcoat under the trademark:

**Magneform® F-120** (NEMA MW 17)

### Characteristics

Magneform® F-120 fulfills the requirements of the following specifications:

IEC 60317-12

NEMA MW 15

### MAGNEFORM® F-120

Valeurs typiques d'un fil <b>Magneform® F-120</b> mesurées selon les normes CEI 60 851	Typical values for a <b>Magneform® F-120</b> sample according to IEC 60 851 standards	
Diamètre du conducteur Diamètre sur émail Isolation de base	1,487 1,578 Polyvinyl acetal	Conductor Diameter Overall Diameter Basecoat
<b>Principales caractéristiques</b>		<b>Main characteristics</b>
Indice de température	<b>120°C</b>	Thermal index
Choc thermique	<b>OK at 175°C</b>	Heat shock
Thermoplasticité	<b>215°C</b>	Cut through temperature
Tension de claquage	<b>≥ 1,5 x IEC values</b>	Breakdown voltage
Flexibilité	<b>5 % + 1 diam.</b>	Flexibility
Allongement	<b>41 %</b>	Elongation
Resistance aux agents chimiques	<b>Good</b>	Chemical resistance
Résistance aux huiles	<b>very good</b>	Resistance to transformer oil
Résistance à l'abrasion	<b>≥ 1,5 IEC values</b>	Resistance to abrasion

These values are for information only.