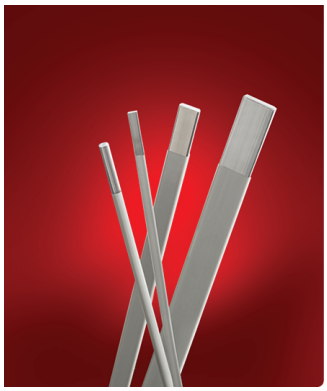

MAGNEFLEX

MagneFlex features aluminum conductors insulated with a high temperature engineered resin. The advanced polymer coatings have been very successful in transformer applications.

Rea Material Code: MAGXA

Rea Insulation Code: 6R

Insulation Material Description: Poly Phenyl Sulfone

Thermal Class: 200

Shape: Round

Conductor: Aluminum

MARKETS

Transformers:
- General
- Utility Distribution Transformers
- Utility Power Transformers
- Specialty Transformers

TYPICAL APPLICATIONS

Utility transformers

FEATURES AND BENEFITS

- Provides uniformity of insulation thickness
- Excellent resistance to stress cracking
- Excellent dielectric properties
- Up to 100% reduction in test failures
- Increased winding speeds
- Lower water absorption
- Lower total unit cost
- Extremely durable
- Easy to strip

Edge Contours

Radius corner Full round

AVAILABILITY

Heavy
2-6 AWG

TYPICAL PROPERTIES

All values noted are typical on square or rectangular conductors. Actual properties of individual lots will vary within specification limits.

THERMAL

Heat Shock (20% 3X)
Pass 15% Elongation @ 220°C Pass 30% Elongation @ 220 °C

Transition Temperature
220°C/428°F

Operating Temperature
200°C/392°F

Thermal Conductivity
2.42 Btu-in/hr-ft2 °F .35W/mk

MECHANICAL

Tensile	ksi	Mpa
Strength	10.1	70
Elongation @ break (23°C)	60-120%	

Flexural Modus	ksi	Mpa
	350	2400

Flexibility
15 percent

ELECTRICAL

Dielectric Breakdown	
@ 3 mil per side	3-8 kV

Dielectric Constant	
@ 60Hz	3.44
@ 1kHz	3.45

Volume Resivity
>10^15 ohm-cm

Dissipation Factor	
@ 60Hz	0.0006

CHEMICAL

Specific Gravity
1.29
Water Absorption @ 24 hr
0.0037
Insulation Thickness
6-8mils/0.1016-0.254 mm