

ALCONEX GOLD® 220°C

Fused Magnet Wire for MV/HV Applications



Insulation Description: Aromatic Polyimide Film

System Temperature: Class R (220°C)

Conductors: Copper and Aluminum

Shapes: Round, Rectangular, Square

NEMA Specifications: MW: 64-C, 64-A, 65-C & 65-A

Alconex Specifications: Alconex Aluminum and Copper Specification

UL File: E321324

TYPICAL APPLICATIONS

Dry-type transformers, specialty transformers, traction motors, electric motors, lifting magnets, separators, formed coils, flexible printed circuits, capacitors, high temperature coils and relays, encapsulated coils

FEATURES AND BENEFITS

- Extraordinary electrical, thermal, and chemical stability
- Film wrapped and fused to wire
- High dielectric properties
- Compliant with IEEE C57.12.56 for MV/HV systems
- Stress levels tested to 600 V/mil
- Varnish optional system
- Chemically compatible with a wide range of encapsulating materials, solvents, and varnishes, including air-dry varnishes

WIRE EDGE CONDITIONS

Radius corner, fully rounded edge, round, and trapezoidal



FILM THICKNESS	1.3 mil
STANDARD OVERLAP	50%
STANDARD BUILD	5.2 mils
COLOR	Amber

INSULATION CLASS	220°C (R)
DIELECTRIC STRENGTH	5,700 V/ mil
DIELECTRIC CONSTANT	3.5 (1kHz)
DISSIPATION FACTOR	0.004 (1kHz)
VOLUME RESISTIVITY	1.0×10^{15} Ωcm

Product safety information is available upon request. This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentation. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge and experience become available. Since we cannot anticipate all variations in actual end-use conditions, Alconex makes no warranties and assumes no liability whatsoever in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe upon any trademark or patent right.

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