

ALCONEX GOLD®

Polyimide Layering



Description: Aromatic Polyimide Film

System Temperature: Class S (240°C) LV

Class R (220°C) MV/HV

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
- High dielectric properties
- Stress levels tested to 600 V/mil (MV/HV)
- Varnish optional system
- Chemically compatible with a wide range of encapsulating materials, solvents, and varnishes, including air-dry varnishes
- Compliments ALCONEX GOLD® fused magnet wire and ALCONEX GOLD® non-fused magnet wire products



THICKNESS	1 MIL	2 MIL	3 MIL	5 MIL
DIELECTRIC STRENGTH	6,600 V/mil	4,600 V/mil	3,900 V/mil	3,400 V/mil
DIELECTRIC CONSTANT	3.5 (1kHz)	3.5 (1kHz)	3.5 (1kHz)	3.5 (1kHz)
DISSIPATION FACTOR	0.004 (1kHz)	0.004 (1kHz)	0.004 (1kHz)	0.004 (1kHz)
VOLUME RESISTIVITY	$1.0 \times 10^{15} \Omega$ cm	$1.0 \times 10^{15} \Omega$ cm	$1.0 \times 10^{15} \Omega$ cm	$1.0 \times 10^{15} \Omega$ cm

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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