



NOMEX TAPE

Nomex™ 410 insulation is a tough, 220°C paper that exhibits excellent physical, thermal and electrical properties. Nomex™ is compatible with transformer oil and most commonly used with varnishes and resins in both dry and oil-filled applications. Nomex™ insulated wire is also used in power generation and lifting magnets to meet high temperature requirements.

Rea Material Code:
TNOM

Rea Insulation Code: **69**

Insulation Material
Description: **Aromatic
Polyamide Tape Wrapped**

Thermal Class: **220**

Shape: **Round**

Conductor: **Copper**

NEMA Specification: **MW
61-C**

IEC Specification:
60317-52

MARKETS

Transformers:
**General
Utility Distribution
Transformers
Utility Power
Transformers
Specialty Transformers**

TYPICAL APPLICATIONS

Oil-filled transformers, utility transformers, power generation and lifting magnet applications.

FEATURES AND BENEFITS

- Nomex™ 410 offers high dielectric strength properties, mechanical toughness and high flexibility.
- Typical tape thicknesses used for wrapping conductor is 2 mil. Other thicknesses are available upon request
- Rea offers one-, two-, three- or four-roll constructions with various overlap options available. Most common construction utilizes two tapes with 50% overlap utilizing Magna-Ply™ processing that was developed at a Rea Magnet Wire facility.

THERMAL

Operating Temperature

220 °C

ELECTRICAL

Dielectric Constant

@ 60Hz

1.6

Dissipation Factor

@ 60Hz

4

Minimum overall increase in insulations thickness for 2 mil tape utilizing two tapes is 7 mil, per NEMA MW 1000-2018. Typical is 8 mil increased in total build.

- Dielectric breakdown of not less than 300 V/mil of the minimum thickness of paper covering one side or half the minimum increase in build, per NEMA MW 1000-2018.