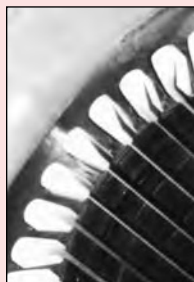


# BASE INSULATIONS - FLEXIBLE INSULATIONS

## Step # 2

### Insulating The Core.

Decide what temperature class insulation system you want to provide. Choose an insulation that provides the correct temperature rating. Pick a thickness that provides the most tear resistance yet leaving enough room for the winding to fit easily in the slot.



## Available in SHEETS, ROLLS & CUFFS

**Sheets:** Handy 24" X 36" sheets are a convenient way of using flexible insulation. Sheets allow you to get only the amount of insulation you need for the job.

36" x 36" are also available. Contact your Essex Brownell representative for price and availability.

**Rolls:** Rolls are typically 36" wide x 36 yds long. Rolls are an economical method of purchasing flexible insulation as there is less waste involved with using rolls.

**Cuffs:** Cuffed coils offer the ultimate in time saving advantages when you are rewinding a number of stators with the same stack length. Precut to slot length, cuffed coils only need to be cut to width. A 3/16" cuff on the end of the slot liner helps hold it in place and adds mechanical strength to resist tearing.



## NOMEX\* 410

### HERMETIC APPROVED CLASS R (220°C)



NOMEX\* 410 is the original form of NOMEX\* paper. It is a calendered product offering high dielectric strength, mechanical toughness, flexibility and resilience. Mil spec MIL-I-24204-A. UL listed.

| NOMINAL THICKNESS (IN.) | DIELECTRIC STRENGTH VOLTS/MIL | TEAR RESISTANCE |       | SHEET 24X36 INCHES | ROLLS 36 IN. X 36 YDS |
|-------------------------|-------------------------------|-----------------|-------|--------------------|-----------------------|
|                         |                               | MD1             | XD1   |                    |                       |
| 0.005                   | 635                           | 7.3#            | 3.6#  | NX-410-005-24X36   | NX-410-005-36IN       |
| 0.007                   | 845                           | 11#             | 5.6#  | NX-410-007-24X36   | NX-410-007-36IN       |
| 0.010                   | 800                           | 16#             | 9.2#  | NX-410-010-24X36   | NX-410-010-36IN       |
| 0.012                   | 840                           | 21#             | 11.4# | NX-410-012-24X36   | NX-410-012-36IN       |
| 0.015                   | 810                           | 26#             | 16#   | NX-410-015-24X36   | NX-410-015-36IN       |
| 0.020                   | 790                           | 36.4#           | 24.1# | NX-410-020-24X36   | NX-410-020-36IN       |
| 0.030                   | 695                           | 54.1#           | 43#   | NX-410-030-24X36   | NX-410-030-36IN       |

MD1 = Machine Direction XD1 = Cross Machine Direction.

Other Sheet Sizes And Slit Rolls Are Available For All Flexible Insulation. Call for Price And Availability.

## NOMEX\* 414

### HERMETIC APPROVED CLASS R (220°C)



NOMEX\* 414 is designed for applications requiring a stronger yet flexible and conformable insulation. It is electrically and thermally similar to type 410, but calendered under different conditions to provide higher tensile strength and fold endurance. Mil spec MIL-I-24204-A. UL listed.

| NOMINAL THICKNESS (IN.) | DIELECTRIC STRENGTH VOLTS/MIL | TEAR RESISTANCE |       | SHEET 24X36 INCHES | ROLLS 36 IN. X 36 YDS | CUFFED COIL     |
|-------------------------|-------------------------------|-----------------|-------|--------------------|-----------------------|-----------------|
|                         |                               | MD1             | XD1   |                    |                       |                 |
| 0.007                   | 710                           | 10.8#           | 5#    | NX-414-007-24X36   | NX-414-007-36IN       |                 |
| 0.010                   | 755                           | 16#             | 7.7#  | NX-414-010-24X36   | NX-414-010-36IN       | ANC-010-414-*** |
| 0.012                   | 755                           | 21#             | 9.4#  | NX-414-012-24X36   | NX-414-012-36IN       |                 |
| 0.015                   | 740                           | 25#             | 12.5# | NX-414-015-24X36   | NX-414-015-36IN       | ANC-015-414-*** |

\*\*\* INSERT THE WIDTH BETWEEN CUFF IN 1/8" INCREMENTS (i.e. ANC-010-414-8-1/2).

010 Cuffed Coils are 1500 inches long .015 Cuffed Coils are 1000 inches long

MD1 = Machine Direction XD1 = Cross Machine Direction .

Other Sheet Sizes And Slit Rolls Are Available For All Flexible Insulation. Call for Price And Availability

## NOMEX\* BOND

### HERMETIC APPROVED CLASS H (180°C)



NOMEX\* bond is a combination of type 416 NOMEX\* bonded on both sides of polyester film. It takes advantage of the excellent thermal aging properties of NOMEX\* for long term heat resistance, while utilizing the tear resistance of polyester film. UL listed.

| NOMINAL THICKNESS (IN.) | DIELECTRIC STRENGTH VOLTS | TEAR RESISTANCE |     | SHEET 24X36 INCHES | ROLLS 36 IN. X 36 YDS |
|-------------------------|---------------------------|-----------------|-----|--------------------|-----------------------|
|                         |                           | MD1             | XD1 |                    |                       |
| 0.010                   | 11,600                    | 11#             | 10# | NB-3-3-3-24X36SH   | NB-3-3-3-36IN         |
| 0.012                   | 12,600                    | 14#             | 12# | NB-3-5-3-24X36SH   | NB-3-5-3-36IN         |
| 0.0135                  | 15,000                    | 16#             | 13# | NB-5-3-5-24X36SH   | NB-5-3-5-36IN         |
| 0.014                   | 16,000                    | 16#             | 22# | NB-3-7.5-3-24X36SH | NB-3-7.5-3-36IN       |
| 0.0155                  | 17,000                    | 16#             | 22# | NB-5-5-5-24X36SH   | NB-5-5-5-36IN         |
| 0.020                   | 21,000                    | 57#             | 47# | NB-5-10-5-24X36SH  | NB-5-10-5-36IN        |

MD1 = Machine Direction XD1 = Cross Machine Direction .

Other Sheet Sizes And Slit Rolls Are Available For All Flexible Insulation. Call for Price And Availability.

\*Nomex is a registered trademark of E.I. DuPont de Nemours.