



UL-RECOGNIZED 600 VOLT CLASS ELECTRICAL 180 °C INSULATION SYSTEMS BASED ON NOMEX®

System 16-1 System for 180 °C Operation

Magnet Wire (Copper or Aluminum)

MW35, MW36, MW60, MW61, MW73, MW74 or Bare Conductor insulated with any NOMEX® Paper type listed below as ground and phase insulation, with a minimum thickness of 2 mils.

Ground and Phase Insulation

NOMEX® Brand Papers and Pressboards, as follows:

- Type 410, 5 mils
- Type 411, 10 mils
- Type 414, 5 mils
- Type 418, 5 mils
- Type 419, 7 mils
- Type E56, 7 mils
- Type 992, 63 mils (thinnest available)
- Type 993, 40 mils (thinnest available)
- Type 994, 40 mils (thinnest available)
- Laminates containing 5 mils of Type 416 and/or Type 464

Additional Materials that can be included, as required by design:

Minor Sheet Insulation

Any Ground Insulation Material listed above or any listed below, with no minimum thickness.

- DuPont: NOMEX® Type 410, 411, 414, 418, 419, 992, 993, 994, E56

Varnish

- Dow Corning: DC-997

Tapes

- 3M Company: 27
- Nitto-Permacel: P21, P262
- Intertape Polymer Group (Tesa/Tuck): 4616-00 (51)

Spacers and Wedges

Any minor insulation, with no minimum thickness requirement.

- DuPont: NOMEX®
- Glastic: TSF, MTS
- Resolute Polyglas: Polyester Glass

Sleeving and Tie Cord

- DuPont: NOMEX® Yarn

Spiral Tubing

- D&B Products (Formerly Plastic Tubes): NOMEX®
- Niemand Bros.: NOMEX®
- Precision Paper Tube Corp (Buckeye Bobbin Div.): NOMEX®
- Precision Paper Tube Corp (Resinite Div.): NOMEX®
- Stone Industrial: NOMEX®

System 16-2 System for 180 °C Operation

Magnet Wire (Copper or Aluminum)

MW35, MW36, MW60, MW61, MW73, MW74 or Bare Conductor insulated with any NOMEX® Paper type listed below as ground and phase insulation, with a minimum thickness of 2 mils.

Ground and Phase Insulation

NOMEX® Brand Papers and Pressboards, as follows:

- Type 410, 5 mils
- Type 411, 10 mils
- Type 414, 5 mils
- Type 418, 5 mils
- Type 419, 7 mils
- Type E56, 7 mils
- Type 992, 63 mils (thinnest available)
- Type 993, 40 mils (thinnest available)

- Type 994, 40 mils (thinnest available)
- Laminates containing 5 mils of Type 416 and/or Type 464

Additional Materials that can be included, as required by design:

Minor Sheet Insulation

Any Ground Insulation Material listed above or any listed below, with no minimum thickness.

- DuPont: NOMEX® Type 410, 411, 414, 418, 419, 992, 993, 994, E56
- DuPont (Formerly VRI-USA, Inc.): NMN, NKN
- Arlon: Astrotherm 200XHX, Astrotherm 180XHX, Astrotherm 200XMX, Astrotherm 180XMX, B-Staged Epoxy-Coated NOMEX®
- Bedford Materials: Pyromid, Pyrolam, NMN, 5JF44-Varnished Glass, 5JF47-Varnished Glass

Core Tubes and Bobbins

- DuPont: RYNITE® 415HP, RYNITE® FR515, RYNITE® 530, RYNITE® 530L, RYNITE® FR530, RYNITE® FR543, RYNITE® 935, RYNITE® 945, RYNITE® FR945, ZYTEL® FR50, ZYTEL® 70G13L, ZYTEL® 70G30HSL, ZYTEL® 70G33L, ZYTEL® 70G33HSIL, ZYTEL® 101L, ZYTEL® 103HSL
- Paramount: NOMEX®
- Precision Paper Tube Corp: Thermoform 700
- Stone Industrial: NOMEX®, KAPTON®, Polyester/Glass

Tapes

- 3M Company: 1, 3, 5, 10, 11, 20+, 27, 38, 44, 46, 54, 55, 56, 57, 58, 60, 61, 62, 63, 69, 74, 75, 79, 90, 92, 1169, 1174, 1205, 1276, 1291, 1298, 1312, 1318, 1339, 1350, 1554, MR94, MR95, MR96, MR98
- Carolina Narrow Fabric: 16412-2
- Hesgon: Fiberglass yarn
- Ideal: 700, 701, 702, 703, 705, 720, 721, 724, 725, 730, 750, 750A, 768, 780, 7007, 7017, 7170, 7177, 7270, 7300, 7307, 7807, 9180, 9190
- Intertape Polymer Group (Tesa/Tuck): 4238(16), 4426(41), 4427(415), 4428(23), 4429(24), 4616-00(51), 4616-04(56), 4617(58), 4618(59), 51337, 51578(415SA), 51579(6161), 51580(40), 51587(49), 51588(50), 51589(64), 51594(6106), 51597(15), 51599(17), 56228FR
- Mutual Industries: C150WS
- Nitto-Denko: 31B, 31C, 188UL, 340, 354E, 360UL, 380, 903, 3161-F
- Nitto-Permacel: P21, P24, P201, P212, P212HD, P213, P222, P224, P234, P242, P243, P245HD, P246, P247, P252, P253, P254, P255, P256, P257, P258, P262, P277, P278, P280, P281, P286, P421, P422, P440
- P Leo: 1C821, 1G130, 1G155, 1G180, 1H86A, 1H850, 1K7170, 1K7177, 1K7270, 1P700, 1P701, 1P702, 1P703, 1P705, 1P707, 1P717, 1PG880, 1PG887, 1PK825, 1PN820, 1PN828
- Saint-Gobain Performance Plastics (CHR Div.): G540, G551, G561, G564, G565, G569, K100, K102, K103, K104, K250, K250X, K350, M50, M52, M54, M56, M57, M60, M64, M66, M69, M97, M99, M705, M706, M730, M765, M787

Lead Wire

- Silicone Rubber, rated 200 °C
- Silicone Rubber with glass braid, rated 200 °C
- Extruded TEFLON® TFE, rated 200°C
- Extruded TFE, rated 200 °C

Below to be isolated from direct contact with windings by minor insulation:

- Irradiated Crosslinked Polymeric, rated 150 °C
- Silicone Rubber with or without glass braid, rated 150 °C
- Extruded TEFZEL® ETFE, rated 150 °C

Spacers and Wedges

Any minor insulation, with no minimum thickness requirement.

- DuPont: NOMEX®
- Franklin Fibre: NOMEX® Window Block
- Glastic: SG-200, FHT, TSF, UTR, MTS, 141X, 1410, 1412, 1608, SLC1000, SLC2000
- Haysite: HST-II, EHC, HTF, H755, Ultratrac H950, ETR-FR-C

Sleeving

- D&B Products: NOMEX®, NOMEX®/Polyester
- Euclid: NOMEX®
- Federal Mogul (Bentley Harris): 1062, 1151-HW, 1258-1, 1258-2, Acryl, Acryl FR (Grade C-2), Acryl Superwall, Acryl VPI-A, Acryl VPI-OB, Ben-Har 1151-FR, Ben-Har 1151-XL-200, Ben-Har 1151-XL-240, Ben-Har Ex-Flex 1500, Ben-Har 1151-XL-FR-1, Ben-Har ST, Ben-Har ST-1250, GR2
- Hilec: Hilec 200C Series, Hilec 300B Series, Hilec 400F Series, Hilec 500R Series, Hilec 700C Series, Turbo 117E, Turbo 117F, Turbo 117G, Turbo 117U, Turbotuf, Turbocryl, Hilec Vol-glas, Hilec Vol-flex, Hilec Vol-Cryl, Hilec Vol-sil, Hilec Vol-glas P, HTS
- Stone Industrial: NOMEX®, NOMEX®/KAPTON®, NOMEX®/MYLAR®
- Suflex, Inc. (Formerly Essex): Suflex Flat Braid Type RF (6B-150 or 8A-150), Suflex Acryflex F, Suflex Acryflex VPI-NF, Suflex Flexicone 200, Suflex Flexicone VPI, Suflex Silicone Resin, Suflex Silicone Rubber, Suflex Silicone Tying Cord, Suflex Silverflex T&D, Suflex Silverflex Unsaturated
- Varflex: Varglas ES-4400 Silicone Rubber, Varglas SR-9400 Silicone Rubber, Varglas Silicone Rubber, Varglas 240 Silicone Rubber, Varglas Hermetic, Varglas Non-Fray Type H, Varglas Non-Fray Type HO, Varglas Silicone Resin 500, VITON® 231, Silflex, Varglas A397 Acrylic

Tie Cord

- Atkins and Pearce: 13-220, 17-200-NX, 29-220, A4C1B1-S, A4C1B1-T6CON, A4C1B1-S6CON, C81104SG, MS9023-T4, MS9023 HSUN-4

- Ludlow Textile: LP 1008, LP 1012, LP 1126, LP 1552, LP 1554
- Varflex: No. 48
- Western Filament: DHS-1CL, 50DOF17W

Varnish

- Ranbar Electrical Materials: B185

System 16-3 System for 180 °C Operation

Magnet Wire (Copper or Aluminum)

MW35, MW36, MW60, MW61, MW73, MW74 or Bare Conductor insulated with any NOMEX® Paper type listed below as ground and phase insulation, with a minimum thickness of 2 mils.

Ground and Phase Insulation

NOMEX® Brand Papers and Pressboards, as follows:

- Type 410, 5 mils
- Type 411, 10 mils
- Type 414, 5 mils
- Type 418, 5 mils
- Type 419, 7 mils
- Type E56, 7 mils
- Type 992, 63 mils (thinnest available)
- Type 993, 40 mils (thinnest available)
- Type 994, 40 mils (thinnest available)
- Laminates containing 5 mils of Type 416 and/or Type 464

Varnish

- P. D. George Company: Pedigree 60-60, Ripley Resin 468-2

System permitted without varnish (only if NOMEX® paper is used as turn insulation).

Additional Materials that can be included, as required by design:

Minor Sheet Insulation

Any Ground Insulation Material listed above or any listed below, with no minimum thickness.

- DuPont: NOMEX® Type 410, 411, 414, 418, 419, 992, 993, 994, E56, KAPTON® HN, KAPTON® CR
- DuPont (Formerly VRI-USA, Inc.): NMN, NKN
- Arlon: Astrotherm 220 XHX, Astrotherm 200XHX, Astrotherm 180XHX, Astrotherm 200XMX, Astrotherm 180XMX, B-Staged Epoxy-Coated NOMEX®
- Bedford Materials: Pyromid, Pyrolam, NMN, 5JF44-Varnished Glass, 5JF47-Varnished Glass
- EIS/Fabrico: NOMEX® Type 411/copper, Revval T-411

Core Tubes and Bobbins

- DuPont: RYNITE® 415HP, RYNITE® FR515, RYNITE® 530, RYNITE® 530L, RYNITE® FR530, RYNITE® FR530L, RYNITE® FR543, RYNITE® 935, RYNITE® FR945, ZYTEL® FR50, ZYTEL® 70G13L, ZYTEL® 70G30HSL, ZYTEL® 70G33L, ZYTEL® 70G33HSIL, ZYTEL® 101L, ZYTEL® 103HSL
- Paramount: NOMEX®
- Precision Paper Tube Corp: Thermoform 700
- Stone Industrial: NOMEX®, KAPTON®, Polyester/Glass

Tapes

- 3M Company: 1, 3, 5, 10, 11, 20+, 27, 38, 44, 46, 54, 55, 56, 57, 58, 60, 61, 62, 63, 69, 74, 75, 79, 90, 92, 1169, 1174, 1205, 1276#, 1291, 1298, 1312, 1318, 1339, 1350, 1554, MR94, MR95, MR96, MR98, Transfer Adhesive 467, Transfer Adhesive 468 (#Cannot be used with Pedigree 60-60 Varnish)
- Avery Dennison: Transfer Adhesive 1122
- Daeil Chemical: 127, 350A
- D and K: Polyethylene Adhesive/PET
- EIS/Fabrico: 809C AM/PET
- Electro Tape Specialties: 3-S, 21-C, 21-FRW, 21 HD-C, 21 HDY, 21-Y, 85, 95, 149-Y, 451, 605
- Ideal: 700, 701, 702, 721, 724, 725, 730, 750, 780, 7017, 7170, 7270, 7300, 7307, 7807
- Intertape Polymer Group (Tesa/Tuck): 4118, 4238(16), 4426(41), 4426-04(39), 4427(415), 4428(23), 4429(24), 4616-00(51), 4616-04(56), 4617(58), 4618(59), 51337, 51560, 51578(415SA), 51579(6161), 51580(40), 51587(49), 51588(50), 51589(64), 51594(6106), 51595, 51596, 51597(15), 51599(17), 56228FR
- Nitto-Denko: 31B, 31C, 188UL, 340#, 354E, 360UL, 380, 903, 3161-F (#Cannot be used with Pedigree 60-60 Varnish)
- Nitto-Permacel: P21, P24, P201, P212, P212HD, P213, P221, P222, P223, P224, P234, P242, P243, P245, P246, P247, P252, P253, P254, P255, P256, P257, P258, P259, P262, P263, P277, P278, P280, P281, P286, P421, P422, P423, P424, P427, P440, P597B (transfer adhesive)
- P Leo: 1C821, 1G130, 1G155, 1G180, 1H850, 1K7170, 1K7270, 1P700, 1P701, 1P702, 1P717, 1PG880, 1PG887, 1PK825, 1PN828
- Saint-Gobain Performance Plastics (CHR Div.): G540, G551, G561, G564, G565, G569, K100, K102, K103, K104, K250, K250X, K350, M50, M52, M54, M56, M57, M60, M64, M66, M69, M97, M99, M705, M706, M730, M765, M787
- Spec Tape: ST-101, NOMEX® Tape
- Sung-Won Electric: ANT-155
- Tae Hwa Industrial: TH-GC012, H-2715

Lead Wire

- Silicone Rubber, rated 200 °C
- Silicone Rubber with glass braid, rated 200 °C
- Extruded TEFLON® TFE, rated 200°C
- Extruded TFE, rated 200 °C

Below to be isolated from direct contact with windings by minor insulation:

- Chemically Crosslinked Polyethylene, rated 150 °C
- Irradiated Crosslinked Polymeric, rated 150 °C
- Silicone Rubber with or without glass braid, rated 150 °C
- Extruded TEFZEL® ETFE, rated 150 °C

Spacers and Wedges

Any minor insulation, with no minimum thickness requirement.

- DuPont: NOMEX®
- Cogebi: Mica Paper 0.25t, 0.35t
- Franklin Fibre: NOMEX® Window Block
- Glastic: SG-200, FHT, TSF, UTR, MTS, 1410, 1412, 1608, SLC1000, SLC2000
- Haysite: HST-II, EHC, HTF, EFM H755, Ultratrac H950, ETR-FR-C
- Iten Industries: HT200
- NVF: GP200HT
- P Leo: SM61
- Resolute Polyglas: Supersil, Polyglass polyester, FM, FR
- Sung-Won Electric: Mica SK661

Sleeving

- D&B Products: NOMEX®, NOMEX®/Polyester
- Federal Mogul (Bentley Harris): 1062, 1151-HW, 1258-1, 1258-2, Acryl, Acryl FR (Grade C-2), Acryl Superwall, Acryl VPI-A, Acryl VPI-OB, Ben-Har 1151-FR, Ben-Har 1151-XL-200, Ben-Har 1151-XL-240, Ben-Har Ex-Flex, Ben-Har Ex-Flex 1500, Ben-Har 1151-XL-FR-1, Ben-Har ST, Ben-Har ST-1250, GR-2# (#Cannot be used with Pedigree 60-60 Varnish)
- Hilec: Hilec 200C Series, Hilec 300B Series, Hilec 400F Series, Hilec 500R Series, Hilec 700C Series, Hilec 800C Series, Turbo 117E, Turbo 117F, Turbofut, Turbocryl, HTS, NOMEX® Sleeving, Natglas, Natglas T&D, Silicone Rubber Coated Fiberglass
- Stone Industrial: NOMEX®, NOMEX®/KAPTON®, NOMEX®/MYLAR®
- Suflex, Inc. (Formerly Essex): Suflex Flat Braid Type RF (6B-150 or 8A-150), Suflex Acryflex, Suflex Acryflex F, Suflex Acryflex VPI-NF, Suflex Flexicone 200, Suflex Flexicone VPI, Suflex Silicone Resin, Suflex Silicone Rubber, Suflex Silicone Tying Cord, Suflex Silverflex T&D, Suflex Silverflex Unsaturated

- Varflex: Varglas ES-4400 Silicone Rubber, Varglas Silicone Rubber, Varglas Hermetic, Varglas Non-Fray Type H, Varglas Non-Fray Type HO, Varglas Non-Fray Type HP, Varglas Silicone Resin 500, VITON® 231, Silflex, Varglas A397 Acrylic

Tie Cord

- Atkins and Pearce: 13-220, 17-200-NX, 29-220, A4C1B1-T6CON, A4C1B1-S6CON, MS9023-T4, MS9023 HSUN-4
- Breyden: G100, G150, G350, 5070, 5100, 5200, 5311, 5312, 5313
- Ludlow Textile: LP 1008, LP 1012, LP 1126, LP 1552
- Varflex: No. 48
- Western Filament: DHS-1CL, NFB-2CL, NRT-CL, 20HOF9A, 30HOF13W, 40HOF17W-NAT, 50DOF17W, 70HOF25S, 130HOF25W

Potting Compound

- P. D. George Company: 300

System 16-4 System for 180 °C Operation

Magnet Wire (Copper or Aluminum)

MW35, MW36, MW60, MW61, MW73, MW74 or Bare Conductor insulated with any NOMEX® Paper type listed below as ground and phase insulation, with a minimum thickness of 2 mils.

Ground and Phase Insulation

NOMEX® Brand Papers and Pressboards, as follows:

- Type 410, 5 mils
- Type 411, 10 mils
- Type 414, 5 mils
- Type 418, 5 mils
- Type 419, 7 mils
- Type E56, 7 mils
- Type 992, 63 mils (thinnest available)
- Type 993, 40 mils (thinnest available)
- Type 994, 40 mils (thinnest available)
- Laminates containing 5 mils of Type 416 and/or Type 464

Additional Materials that can be included, as required by design:

Minor Sheet Insulation

Any Ground Insulation Material listed above or any listed below, with no minimum thickness.

- DuPont: NOMEX® Type 410, 411, 414, 418, 419, 992, 993, 994, E56

Varnish

- Schenectady Chemicals: Isonel 31

Tapes

- 3M Company: 27
- Nitto-Permacel: P21, P262
- Intertape Polymer Group (Tesa/Tuck): 4616-00 (51)

Spacers and Wedges

Any minor insulation, with no minimum thickness requirement.

- DuPont: NOMEX®
- Glastic: TSF, MTS
- Resolute Polyglas: PE Glass

Sleeving and Tie Cord

- DuPont: NOMEX® Yarn

Spiral Tubing

- D&B Products (Formerly Plastic Tubes): NOMEX®
- Niemand Bros.: NOMEX®
- Precision Paper Tube Corp (Buckeye Bobbin Div.): NOMEX®
- Precision Paper Tube Corp (Resinite Div.): NOMEX®
- Stone Industrial: NOMEX®

System 16-5B System for 180 °C Operation

Magnet Wire (Copper or Aluminum)

MW35, MW36, MW60, MW61, MW73, MW74 or Bare Conductor insulated with any NOMEX® Paper type listed below as ground and phase insulation, with a minimum thickness of 2 mils.

Ground and Phase Insulation

NOMEX® Brand Papers and Pressboards, as follows:

- Type 410, 4 mils
- Type 411, 10 mils
- Type 414, 4 mils
- Type 418, 5 mils
- Type 419, 7 mils
- Type E56, 7 mils
- Type 992, 63 mils (thinnest available)
- Type 993, 40 mils (thinnest available)
- Type 994, 40 mils (thinnest available)

- Laminates containing 4 mils of Type 416 and/or Type 464
 - DuPont (Formerly VRI-USA, Inc.): NMN, NKN
 - August Krempel: Trivoltherm N50 (NMN2/5/2)
 - Bedford Materials: N16M232, N64M252
 - Beico: NPN 2/1/2, NPN 5/2/5 (using Type 411), NP 5/7, NKN 2/1/2 (where P is polyester film)
 - Coveme: Dyterm N2D, Dyterm N2S
 - DMI Isolantes Eléctricos (Formerly Delmica): Delmex NMN
 - Jones Stroud: Hypertherm F 2/5/2 (NMN)
 - Kensulat PLC: NMN 2/1/2
 - Polycom Associates: NMN 2/2/2, NPN 2/2/2
 - Pucaro: Triflexil 12,5 – NMN/50 (2/5/2), Triflexil 12,5 – NM/50 (5/2), Triflexil 12,5 – NM/80 (5/3)
 - RVD Materiais Dieléctricos Ltda.: Thernomid 2005F NMN
 - SEG: Seguimex T5 (NMN 2/5/2)
 - Sui On: NMN 2/1/2
 - Sweco: Swecomex NTN 2/1/2 (where T is polyester film)
 - Teinser: TT11025 (NMN 2/5/2)
 - Weidmann Systems International Ltda.: NMN 2/5/2

Additional Materials that can be included, as required by design:

Minor Sheet Insulation

Any Ground Insulation Material listed above or any listed below, with no minimum thickness.

- DuPont: NOMEX® Type 410, 411, 414, 418, 419, 992, 993, 994, E56, KAPTON® HN, KAPTON® CR
- DuPont (Formerly VRI-USA, Inc.): NMN, NKN
- Bedford Materials: Pyrolam, NMN
- Coveme: NM
- Teinser: TT17020 (NM3/5), TT17028 (NM3/10)

Varnish

- DuPont: DuPont Performance Coatings (Herberts) E8571, E9571
- John C. Dolph: CC-1105
- P. D. George Company: Pedigree 50, Pedigree 1000
- Ranbar Electrical Materials: B535
- Schenectady Chemicals: Isonel 885
- Tatung: TCV-2319
- Von Roll Isola: 777, 3037

Tapes

- 3M Company: 12, Super 20, 46, 60, 90, 92, 1350T, MR94B
- Daeil Chemical: 127
- Ducksung: DTS-204A
- Electro Tape Specialties: 21FR, 23, 29, 92, 94, 95, 97, 149-21, 269, 418, 451
- Four Pillars: GL06, GL15, NM13, KA00
- Hyupsung: Korta 210
- Ideal: 720, 725, 750, 7017, 7177, 7300, 7807
- Intertape Polymer Group (Tesa/Tuck): 4428(23), 4616-00(51), 51337, 51580(40), 51596, 51597(15)
- Nitto-Denko: 31B, 156, 188UL, 315, 354E, 360NUL, 380, 903, 3161-F
- Nitto-Permacel: P21, P224, P234, P245, P248, P256, P262, P277, P286, P422
- P Leo: 1G180, 1H850, 1K7177, 1P717, 1PG887, 1PK825, 1PN820
- Saint-Gobain Performance Plastics (CHR Div.): G551, G565, K103, K250, M54, M97
- Schweizer: GL-94, RT, 75102 (NOMEX®), 75300 (polyester), heatshrinking (polyester fabric)
- Sung-Won Electric: ANT-155

Lead Wire

- Silicone Rubber, rated 200 °C
- Silicone Rubber with glass braid, rated 200 °C
- Extruded TEFLON® TFE, rated 200°C
- TEFZEL® 750, rated 200 °C

Below to be isolated from direct contact with windings by minor insulation:

- Chemically Crosslinked Polyethylene, rated 125 °C or 150 °C
- Irradiated Crosslinked Polymeric, rated 125 °C or 150 °C
- Silicone Rubber with or without glass braid, rated 150 °C
- Ethylene-propylene-diene monomer, rated 150 °C
- Extruded TEFZEL® ETFE, rated 150 °C

Spacers and Wedges

Any minor insulation, with no minimum thickness requirement.

- DuPont: NOMEX®
- K.E.T.: MG-630823
- Mei-Jui: Epoxy glass Sheet CHR
- Schweizer: Duroglas
- Sung-Won Electric: SK641, SK661

Sleeving /Tubing

- Chern-Fwuh: Silicone glass FSG-2
- Electrolock: polyimide film, heatshrink MYLAR®, polyester film, NOMEX®/polyester
- Federal Mogul (Bentley Harris): 1062, Acryl, Ben-Har 1151-FR, Ben-Har 1151-XL-200, Ben-Har 1151-XL-240, Ben-Har 1151-XL-FR-1, Ben-Har Ex-Flex 1500
- Hilec: Hilec 300B Series, Hilec 400F Series, Hilec 500R Series, Hilec 700C Series, Turbo 117F
- Jia Chang: Silicone Glass SSG
- Schweizer: Revitex acrylic 8000V, Revitex fiberglass VPG80, Revitex silicone rubber VSC75
- Sofanou Inc. (Formerly Jenisco): AC433
- Suflex, Inc. (Formerly Essex): Suflex Acryflex F, Suflex Flexicone 200, Suflex Silicone Resin, Suflex Silicone Rubber
- Sun Din: Silicone glass HH-1
- Sung-Won Electric: 2MR, 3MR, 5MR
- Varflex: Varglas ES-4400 Silicone Rubber, Varglas Silicone Rubber, Varglas Non-Fray Type HO, Varglas Silicone Resin 500, VITON® 231, Silflex, Varglas A397 Acrylic

Tie Cord

- DuPont: NOMEX® Yarn
- Atkins and Pearce: 13-220, 16-2HT, 17-200-NX, MS9023-T4
- Breyden: BPCCT-155, BPCCT-180
- Ludlow Textile: LP 1008, LP 1126, LP 1552
- Mei-Jui: NOMEX® Tie cord, designated SN
- Schweizer: polyester bandaging yarn
- Varflex: No. 48
- Western Filament: DHS-1CL, DRT-150CL, 50DOF17W

System 16-6 System for 180 °C Operation

Magnet Wire (Copper or Aluminum)

MW35, MW36, MW60, MW61, MW73, MW74 or Bare Conductor insulated with any NOMEX® Paper type listed below as ground and phase insulation, with a minimum thickness of 2 mils.

Ground and Phase Insulation

NOMEX® Brand Papers and Pressboards, as follows:

- Type 410, 5 mils
- Type 411, 10 mils
- Type 414, 5 mils
- Type 418, 5 mils
- Type 419, 7 mils
- Type E56, 7 mils
- Type 992, 63 mils (thinnest available)
- Type 993, 40 mils (thinnest available)
- Type 994, 40 mils (thinnest available)
- Laminates containing 5 mils of Type 416 and/or Type 464

Additional Materials that can be included, as required by design:

Minor Sheet Insulation

Any Ground Insulation Material listed above or any listed below, with no minimum thickness.

- DuPont: NOMEX® Type 410, 411, 414, 418, 419, 992, 993, 994, E56

Varnish

- P. D. George Company: Pedigree 12-0-12

Tapes

- 3M Company: 27
- Nitto-Permacel: P21, P262
- Intertape Polymer Group (Tesa/Tuck): 4616-00 (51)

Spacers and Wedges

Any minor insulation, with no minimum thickness requirement.

- DuPont: NOMEX®
- Glastic: TSF, MTS
- Resolute Polyglas: Polyester Glass

Sleeving and Tie Cord

- DuPont: NOMEX® Yarn

Spiral Tubing

- D&B Products (Formerly Plastic Tubes): NOMEX®
- Niemand Bros.: NOMEX®
- Precision Paper Tube Corp (Buckeye Bobbin Div.): NOMEX®
- Precision Paper Tube Corp (Resinite Div.): NOMEX®
- Stone Industrial: NOMEX®



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DuPont on the web:
www.dupont.com/nomex

These insulation systems conform to DuPont's UL File E-57692 as of the date of preparation of this brochure, and are subject to change with material availability. **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 experimentations. 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 becomes available. Since we cannot anticipate all variations in actual end-use conditions, **DUPONT MAKES NO WARRANTIES AND ASSUMES NO LIABILITY 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 any patent right.

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