



UL-RECOGNIZED 600 VOLT CLASS ELECTRICAL 240 °C INSULATION SYSTEMS BASED ON NOMEX®

System 8-1 System for 240 °C Operation

Magnet Wire (Copper or Aluminum)

MW16, MW60, MW61 or Bare Conductor insulated with any NOMEX® paper type listed below as ground and phase insulation, with a minimum thickness of 2 mils (50% overlap)

Ground and Phase Insulation

NOMEX® Brand Papers and Pressboards, as follows:

- Type 410, 10 mils
- Type 411, 23 mils
- Type 414, 10 mils
- Type 418, 10 mils
- Type E56, 15 mils
- Type 992, 63 mils (thinnest available)
- Type 993, 40 mils (thinnest available)
- Type 994, 40 mils (thinnest available)

Additional Materials which 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
- DuPont-Teijin Films: MYLAR®, MELINEX®
- Arlon: Astrotherm 200XX, Astrotherm 180XX, B-Staged Epoxy-Coated NOMEX®
- Bedford Materials: Pyrolam, 5J44F-Varnished Glass, NMN, NKN

Tapes

- 3M Company: 1, 2, 3, 4, 10, 20+, 27, 38, 44, 46, 54, 55, 56, 57, 58, 60, 61, 62, 69, 74, 75, 79, 92, 1174, 1205, 1277, 1298, 1318, 1339, 4085, MR93, MR93B, MR94, MR94B, MR95, MR96, MR98
- Ideal: 700, 701, 702, 705, 720, 724, 725, 730, 750, 780, 7007, 7017, 7170, 7177, 7270, 7300, 7307, 7807
- Intertape Polymer Group (Tesa/Tuck): 4118, 4238(16), 4426(41), 4426-04(39), 4427(415), 4428(23), 4429(24), 4564, 4616-00(51), 4617(58), 4618(59), 51337, 51578(415SA), 51579(6161), 51580(40), 51587(49), 51588(50), 51589(64), 51592, 51594(6106), 51597(15), 51599(17), 54108, 54113, 54562, 56228FR
- Kendall: 293, 295, 765
- Mystik Tapes: 7100, 7300, 7459, 7503
- Nitto-Denko: 31B, 31C, 188, 312, 315, 316, 354, 354E, 360N
- Nitto-Permacel: P21, P24, P201, P212, P212HD, P213, P221, P222, P223, P224, P232, P235, P236, P240, P242, P243, P245, P246, P247, P248, P252, P253, P254, P255, P256, P257, P258, P259, P262, P263, P277, P278, P280, P281, P286, P286HD, P421, P422, P423, P424, P427, P430
- P Leo: 1G006, 1G015, 1G130, 1G155, 1G180, 1H850, 1K063, 1K7170, 1K7177, 1K7270, 1N012, 1P9FR, 1P30, 1P700, 1P701, 1P702, 1P705, 1P707, 1P717, 1PG880, 1PG887, 1PK825, 1PN820, 1PN828
- PPI Adhesive Products: 0102-S, 1022, 1026, 1027, 1028, 1042, 1510, 1610, 1620, 1710, 1711, 1712, 6510, 6511, 6610, 6612, 6710, 7010, 7011, 7510, 7610, 8410, 8411, 8415, SP133, SP137
- Saint-Gobain Performance Plastics (CHR Div.): G540, G551, G565, G569, K103, K250, K350, M52, M54, M56, M57, M60, M64, M69, M97, M99, M705, M706, M765, M787
- Spec Tape: ST-101

Spacers and Wedges

Any minor insulation, with no minimum thickness requirement.

- DuPont: NOMEX®
- Glastic: 1911, FHT, MTS rod, SG-200, TSF, UTR
- Haysite: EFM, EHC, ETS, HST-II, HTF, H755, H850, H950
- Jenisco: Glass polyester pultruded rod
- Nohl: APO-1, APO-2, APO-3, APO-3PT, NTR-155
- Resolute Polyglas: Supersil, Polyglas polyester

Sleeving

- D & B Products: NOMEX®, NOMEX®/Polyester, NOMEX®/KAPTON®
- Federal Mogul (Bentley Harris): 1062, Ben-Har 1151-FR-A, Ben-Har 1151-XL-FR-C, Ben-Har 1151-XL-200, Ben-Har 1151-XL-220, Ben-Har 1151-XL-240, Ben-Har Acryl Superwall, Ben-Har ST, Ben-Har ST-1250, Ben-Har Ex-Flex, Ben-Har Acryl A, Ben-Har Acryl C, Ben-Har Acryl VPI, Ultra Acryl A, Ultra Acryl C
- Hilec: Hilec 200C Series, Hilec 300B Series, Hilec 400F Series, Hilec 500R Series, Hilec 700C Series, Hilec 800C Series, Acrylic, Turbocryl, Turbo 117E, Turbo 117F, Natglas, Natglas T&D, Silicone Rubber SRG-200, Silicone Rubber SRG-300, Acrylignass 727N
- Sofanou (Markel): Conformasleeve, Flexite TFE, Hygrade Polytube 463 (A-1 & C-1), Hygrade SR398 (H-A-1 & H-C-1), Hygrade Thermoflex 500, Hygrade Thermoflex 500 Heavywall, Hygrade Thermoflex 1200, Hygrade Thermoflex 1200 Heavywall, Hygrade Thermoflex VF (A, B & C)
- Stone Industrial: NOMEX®, NOMEX®/MYLAR®
- Suflex, Inc. (Essex): Suflex Acryflex VPI, Suflex Acryflex F (Grades B & C), Suflex Silverflex T&D, Suflex Flexicone 200 (Grades A, B & C), Suflex Silicone Resin (Grades A, B & C)
- Varflex: Varglas ES-4400 Silicone Rubber, Varglas Non-Fray Type H, Varglas Non-Fray Type HM, Varglas Non-Fray Type HO, Varglas Non-Fray Type HP, Varglas Silicone Resin 500, Varglas Silicone Rubber, VITON® 231, Varglas A397 Acrylic, Triple Wall VPI

Tie Cord

- DuPont: NOMEX® Yarn
- Atkins and Pearce: 13-220, 16-1-8CON, A4C1B1-T6CON, AP-31000-T3, C-81104SG, C-83242SG, MA4C1B1-S12, MS9023HSUN-4, MS9023-T4
- Breyden: G100
- Jenisco: LT-P02
- Western Filament: DHS Series, DPS Series, DRT Series, EM2CL, Poly Sleeving, 50DOF17W

Varnish

- P. D. George Company: Pedigree 12-0-12, Pedigree 12-0-12I, Pedigree 40, Pedigree 50, Pedigree 60-60, Pedigree 70*, Pedigree 433-75-VTC, Pedigree 600, Pedigree 711-F-2106, Pedigree 777*, Pedigree 961, Pedigree 1000*

* May only be used in conjunction with NOMEX® wrapped conductors (MW 60 & MW 61 for example)

Other systems with P.D.George Company varnishes Pedigree 2500 and Pedigree 3120 are also available. Contact DuPont for more information.



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H-93503 10/02 Printed in U.S.A.



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