

Values

Vision

Versatility

**Essex Brownell** is a world class full-line distributor of Magnet Wire, Insulation and other necessary products used in today's transformers. Our partnerships with best in class suppliers, our supply chain management capability and our experienced, well trained sales force, enable us to offer complete solutions for your business and your customers.

**Essex Brownell's** custom fabrication capability enables Just In Time delivery and support for all of your applications. In addition, Essex Brownell has stocking warehouses across the United States, Canada and Mexico to provide North American logistic support, and eliminate the need to use valuable production space for stocking.



Adhesives & Sealants  
Bearings  
Fabricated Parts  
Flexible Insulation  
Lacing Tapes and Cords  
Lead Wire  
Lubricants  
Magnet Wire  
Mica Products  
Pressure Sensitive Tapes  
Rigid Insulation  
Shop and Test Equipment  
Silicone Products  
Standoff Insulators  
Tubing & Sleeving  
Varnish & Resin



Images provided by Dongan Electric Mfg. Co. & ABB Inc.

## Customer Care

OEM

Repair

Ph: 800.805.4636

Fax 800.768.9782

Ph: 800.774.4643

Fax 800.439.5696

# Product Selection Chart

| Transformer Type  | Segment                     | Class A 105°C                                    | Class B 130°C                                      | Class F 155°C  | Class H 180°C  | Class R 220°C  |
|-------------------|-----------------------------|--|--|--|--|--|
| <b>Dry</b>        | <b>Liquid Insulations</b>   | Impregnating Resins<br>Encapsulants              | Impregnating Resins<br>Encapsulants                | Impregnating Resins<br>Encapsulants                                      | Impregnating Resins<br>Encapsulants                                      | Impregnating Resins<br>Encapsulants                                |
|                   | <b>Flexible Insulations</b> | Kraft Paper                                      | Polyester Films                                    | DMD, RMR, KMK<br>TFT, NKN, NMN<br>TufQUIN™<br>CeQUIN™<br>Varnished Glass | DMD, RMR, KMK<br>TFT, NKN, NMN<br>TufQUIN™<br>CeQUIN™<br>Varnished Glass | PEN Films<br>ThermaVOLT™<br>NKN<br>Nomex®                          |
|                   | <b>Rigid Insulations</b>    | Kraft Press Board                                | HI-VAL Press Board<br>Glastic Laminates<br>Micarta | Nomex® Press Board<br>SG200 Glastic<br>CGA Board                         | Nomex® Press Board<br>SG200 Glastic<br>CGA Board                         | Nomex® Press Board<br>SG200 Glastic<br>CGA Board                   |
|                   | <b>Tapes</b>                | Acetate Cloth<br>Cotton Cloth                    | Polyester Film<br>Glass Cloth<br>Epoxy Film        | Polyester Film<br>Glass Cloth<br>Epoxy Film                              | Polyamide Film<br>Glass Cloth<br>Nomex®                                  | Banding Tapes<br>Silicone Self Bonding<br>Nomex®<br>Polyamide Film |
| <b>Cast</b>       | <b>Segment</b>              | <b>Class A 105°C</b>                             | <b>Class B 130°C</b>                               | <b>Class F 155°C</b>   | <b>Class H 180°C</b>   | <b>Class R 220°C</b>   |
|                   | <b>Liquid Insulations</b>   | Epoxy Casting Resins<br>Polyester Casting Resins | Epoxy Casting Resins<br>Polyester Casting Resins   | Epoxy Casting Resins<br>Polyester Casting Resins                         | Epoxy Casting Resins<br>Polyester Casting Resins                         | Epoxy Casting Resins<br>Polyester Casting Resins                   |
|                   | <b>Flexible Insulations</b> | Kraft Paper                                      | Polyester Films                                    | DMD, RMR, KMK<br>TFT, NKN, NMN<br>TufQUIN™<br>CeQUIN™<br>Varnished Glass | DMD, RMR, KMK<br>TFT, NKN, NMN<br>TufQUIN™<br>CeQUIN™<br>Varnished Glass | PEN Films<br>ThermaVOLT™<br>NKN<br>Nomex®                          |
|                   | <b>Rigid Insulations</b>    | Kraft Press Board                                | HI-VAL Press Board<br>Glastic Laminates<br>Micarta | Nomex® Press Board<br>SG200 Glastic<br>CGA Board                         | Nomex® Press Board<br>SG200 Glastic<br>CGA Board                         | Nomex® Press Board<br>SG200 Glastic<br>CGA Board                   |
|                   | <b>Tapes</b>                | Acetate Cloth<br>Cotton Cloth                    | Polyester Film<br>Epoxy Film<br>Glass Cloth        | Polyester Laminates<br>Epoxy Film<br>Glass Cloth                         | Polyimide Film<br>Glass Cloth  | Banding Tapes<br>Silicone Self Bonding<br>Polyamide Film           |
| <b>Oil Filled</b> | <b>Segment</b>              | <b>Class A 105°C</b>                             | <b>Class B 130°C</b>                               | <b>Class F 155°C</b>   | <b>Class H 180°C</b>   | <b>Class R 220°C</b>   |
|                   | <b>Liquid Insulations</b>   | Silicone Transformer Fluid                       | Silicone Transformer Fluid                         | Silicone Transformer Fluid   | Silicone Transformer Fluid   | Silicone Transformer Fluid   |
|                   | <b>Flexible Insulations</b> | Kraft Paper<br>Rag Paper<br>Diamond Coated Kraft | DMD  | DMD  | ThermaVOLT™<br>Nomex®<br>DMD 180   | ThermaVOLT™<br>Nomex®  |
|                   | <b>Rigid Insulations</b>    | Kraft Paper<br>Kraft Press Board<br>Kraft Tubes  | Hi Val Press Board<br>Nomex® Press Board           | Nomex® Press Board<br>Epoxy Glass  | Nomex® Press Board<br>Epoxy Glass  | Nomex® Press Board   |
|                   | <b>Tapes</b>                | Glass Reinforced Paper                           | Polyester Film/Glass                               | Polyester Film/Glass<br>Epoxy Glass                                      | Nomex®   | Nomex®   |

**\*Materials listed in higher temperature classes can also be used in lower temperature class applications**

