



Express Powergen Number  
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## Specialists in Power Generation Insulation

Essex Active offers a wide range of capabilities to supply electrical insulation materials, parts and services to the Power Generation, OEM and Motor Repair industries. Essex Active can supply individual parts or complete kits, and we offer quick turnaround for emergency situations.

### PRODUCTS AND SERVICES

- Stator Insulation Kits
- End Wind Kits
- Conforming Materials
- Custom Coated Materials
- Die Cuts
- Rotor Insulation Kits
- Slot Cell Insulation
- Turn Insulation
- Tension Members
- Fabricated Flexible and Rigid Materials

### INDUSTRY EXPERIENCE

Our people have many years of combined experience in insulation fabrication and power generation applications. Our staff is responsive and anxious to meet your needs. The Essex Active team takes pride in the level of service and the quality of the products provided to our customers.

### FACILITIES

Essex Active's facilities, combined with state-of-the-art fabricating equipment and strong financial support puts us in a position to satisfy the most difficult designs and improve processes. Our advanced ERP software package allows Active to trace every aspect of our business to ensure accuracy in order processing, manufacturing, inventory levels, and process control.

### CUSTOM PACKAGING AND KITTING

Essex Active is able to manufacture all the required insulation products for a unit into one convenient package saving our customers time and money. Each kit is 100% inspected to achieve the highest level of quality offered in the industry. All packaging is clearly labeled to customer specifications.

### INVENTORY MANAGEMENT

Essex Active offers many inventory management programs tailored to meet each individual customer's unique needs. Minimum and maximum levels are used to allow for same or next day shipment of custom fabricated items.

### QUALITY

Essex Active has maintained an ISO registered quality system since 1994. We at Active are dedicated to exceeding the expectations of our customers with uncompromising integrity. We are committed to provide our customers with the highest quality at competitive prices, and strive to ensure a satisfied customer at the end of each transaction.



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Customer Focused...Performance Driven



Essex Active is a leading converter/fabricator of electronic and electrical insulating materials in North America, which includes both flexible and rigid nonmetallic products. We support and supply electrical insulation to both OEM's, Motor Repair and rebuilders of power generation equipment.

## ESSEX ACTIVE SERVICES

### DIE CUTTING >

- Steel rule dies
- Hard tool dies for high volume applications
- Offers methods of cutting, creasing, perforating and scoring
- Fast, affordable prototyping and new product testing
- Working with materials typically from .001" to .250" in thickness
- Cutting tolerances down to ± .005" with ± .015" standard

### STAMPING >

- High volume production runs
- Accuracy down to ± .005"
- Complex shapes – rigid materials
- Complete range of custom steel rule die cutting and stamping

### FORMING >

- Stamping 3-dimensional parts
- Hot forming/cold forming

### PRINTING >

- Warning labels
- Printed messages
- Embossed part numbers on high temp materials

### REWIND SLITTING >

- Standard rolls from .093" to 80"
- Standard material thicknesses from .0005" to .125"
- Slitting tolerance capabilities to ± .005" standard tolerances of ± .015"

### SHEETING >

- Standard widths through 48" custom sheets up to 80"
- Programmable sheet layouts to virtually any dimension
- Custom sheet marking, striping and packaging

### LAMINATING >

- Pressure sensitive adhesives
- Custom material laminating
- Zone and strip laminating
- Release liner application
- Special coating and material treatment

### BLANKING >

- Rigid and flexible materials from .062" to 90"
- Papercutting
- Chop ping
- Shearing
- Sawing
- Drilling
- Machining

### TAPE SLITTING >

- Pressure sensitive adhesive backed tapes
- Standard rolls from 1/8" to 48"
- Slitting tolerances from ± .015" to ± .032"
- 24 hour turnaround services available

### SLOT INSULATION >

- Slot liners
- Slot armor
- Cuffed, taped edges
- Creased, formed

\* Essex Active represents ABB - MICAFIL® products in North America. ABB - MICAFIL® is one of the premier manufacturers of rigid slot armor and high voltage insulations in the world.

### WEDGE MATERIAL >

- Nomex®
- Kraft paper
- Fishpaper
- Rag paper
- Commercial or vulcanized fiber
- Mylar®
- Kapton®

### MACHINED PARTS >

- High pressure laminates
- Phenolics
- Glass epoxy

### GASKET MATERIALS >

- PVC
- Neoprene
- Composite cork

# Essex Active Materials

Essex Active offers over 600 different non-metallic electrical insulation materials.

## TAPES

Electrical, Electrical Shielding, Electronic, Conductive Foils, Films, Industrial, Pressure Sensitive, Single & Double Coated

**Suppliers:** 3M, Intertape Polymer Group, Mac Tac, Nitto Denko/Permacel, PPI, Saint Gobain, Von Roll

\*B-Staged Coatings and Prepegs available for outstanding conformability and electrical properties

## LAMINATES

DMD, CeQuin, NMN, NKN, NMNE, RM, Mica, Coated Glass Cloth, RMR, TFT, KM, Thermavolt®, Mylar®

**Suppliers:** 3M IPT, Arlon, DuPont, Isovolta, Von Roll

\*B-Staged Coatings and Prepegs available for outstanding conformability and electrical properties

\*Special laminate capabilities available

## FABRICS & MAT

Silicone Glass, Coated Aramid Mat, Varnished Cambric, Coated poxy or Polyester Varnished Glass Cloth Varnished Glass Cloth

**Suppliers:** Isovolta and Von Roll

## PAPER

Epoxy, Inorganic Insulation, Dielectric, Kraft and Coated Kraft, Copaco 125, Commercial or Vulcanized Fiber, Rag, Nomex®, Pressboard

**Suppliers:** 3M IPT, Bedford Materials, Boyd Converting, Cottrell Paper Company Inc., Crocker Technical Paper, Toyo Fibre Co, Ltd., Wausaw Paper, Windsor Stevens, Weidman Electrical

\*B-Staged Coatings and Prepegs available for outstanding conformability and electrical properties

\*Coating capabilities in full width or diamond patterned

## FILMS

Polyester, WC, EL, MO, HS, FR, Polypropylene, Furon, Polyimide, Melinex®

**Suppliers:** DuPont Teijin® Films, DuPont Kapton, ITW, Saint Gobain, Von Roll

\*B-Staged Coatings and Prepegs available for outstanding conformability and electrical properties

## FOAMS

Urethanes, PVC Foam Gasketing, MicroCellular Urethane Gasketing

**Suppliers:** Rogers Corporation and Saint Gobain

Essex Active is dedicated to a leadership position in formed wedge production, offering a complete range of materials, shapes and sizes. Custom materials and services are available to meet customer specifications.

## FORMED WEDGE CHART

250 ft per tube

36" in length

	Radius	Approx. Outside Width "A"	Approx. Outside Width "B"
PREFIX-58-X	0.1000	0.2031	0.1250
PREFIX-60-X	0.0781	0.1563	0.1406
PREFIX-65-X	0.1094	0.2188	0.1406
PREFIX-70-X	0.0781	0.1563	0.1719
PREFIX-86-X	0.1094	0.2188	0.1875
PREFIX-94-X	0.1563	0.3125	0.1875
PREFIX-99-X	0.1250	0.2500	0.2188
PREFIX-117-X	0.1563	0.3125	0.2500
PREFIX-144-X	0.1875	0.3750	0.3125
PREFIX-199-X	0.2188	0.4375	0.2656

PREFIX's	Available Thicknesses
ANHT - Nomex	.010, .015, .020, .024 and .030
AFW or ASF - Fibre	.020, .025 and .030
ADMD - DMD 100	.020 and .024
ADMD180 - DMD 180	.020 and .024
U180 - U180	.020 and .024
AMF or AMFC - Mylar	.0075, .010 and .014
ATFT - TFT	.020 and .024

X = MATERIAL THICKNESS



	Approx. Outside Width "A"	Approx. Outside Width "B"
PREFIX-X-4-8	0.0625	0.1250
PREFIX-X-5-6	0.0781	0.0938
PREFIX-X-6-7	0.0938	0.1094
PREFIX-X-6-8	0.0938	0.1250
PREFIX-X-7-6	0.1094	0.0938
PREFIX-X-7-8	0.1094	0.1250
PREFIX-X-8-6	0.1250	0.0938
PREFIX-X-8-8	0.1250	0.1250
PREFIX-X-8-10	0.1250	0.1563
PREFIX-X-8-11	0.1250	0.1719
PREFIX-X-9-8	0.1406	0.1250
PREFIX-X-9-10	0.1406	0.1563
PREFIX-X-9-11	0.1406	0.1719
PREFIX-X-9-12	0.1406	0.1875
PREFIX-X-10-9	0.1563	0.1406
PREFIX-X-10-10	0.1563	0.1563
PREFIX-X-10-11	0.1563	0.1719
PREFIX-X-10-12	0.1563	0.1875
PREFIX-X-10-14	0.1563	0.2188
PREFIX-X-11-10	0.1719	0.1563
PREFIX-X-11-12	0.1719	0.1875
PREFIX-X-11-13	0.1719	0.2031
PREFIX-X-12-12	0.1875	0.1875
PREFIX-X-12-16	0.1875	0.2500
PREFIX-X-13-11	0.2031	0.1719
PREFIX-X-13-13	0.2031	0.2031
PREFIX-X-14-12	0.2188	0.1875
PREFIX-X-14-17	0.2188	0.2656
PREFIX-X-15-11	0.2344	0.1719
PREFIX-X-15-15	0.2344	0.2344
PREFIX-X-16-11	0.2500	0.1719
PREFIX-X-16-14	0.2500	0.2188
PREFIX-X-17-13	0.2656	0.2031
PREFIX-X-17-15	0.2656	0.2344
PREFIX-X-17-18	0.2656	0.2813
PREFIX-X-18-14	0.2813	0.2188
PREFIX-X-19-11	0.2969	0.1719
PREFIX-X-19-15	0.2969	0.2344
PREFIX-X-20-18	0.3125	0.2813
PREFIX-X-21-15	0.3281	0.2344
PREFIX-X-23-16	0.3594	0.2500
PREFIX-X-27-18	0.4219	0.2813
PREFIX-X-28-22	0.4375	0.3438
PREFIX-X-32-18	0.5000	0.2813