



Essex Active is a major fabricator and converter of flexible and rigid non-metallic materials. Active products include electrical insulation, gaskets, insulators, shielding and other industrial products. Active markets products and services world wide to original equipment manufacturers, motor repair, and other service industries.

## SERVICING >

Motor	Transformer
Appliance	Power Generation
Switchgear	Capacitor
Computer	Pump
Compressor	Automotive
Large Rotating Equipment	Electrical and Electronic Equipment

Essex Active offers a complete range of custom diecutting, stamping, forming and printing services.

## DIECUTTING >

- Inexpensive tooling
- Alternative to male-female dies
- Offers methods of cutting, creasing, perforating and scoring
- Fast, affordable prototyping and new product testing
- Working with materials typically from .001" to .125" in thickness
- Cutting tolerances down to  $\pm .005"$  with  $\pm .015"$  standard

## STAMPING >

- High volume production runs
- Accuracy down to  $\pm .005"$
- Complex shapes – rigid materials
- In-house tool and die facilities to build, service and maintain customer tooling

## FORMING >

- Stamping 3-dimensional parts
- Hot forming/cold forming
- Pressed and extruded parts

## PRINTING >

- Warning labels, printed messages, embossed part numbers



## CONVERTED PRODUCTS

Essex Active offers a wide range of converting services.

## REWIND SLITTING >

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

## 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
- Zone and strip laminating
- Release liner application
- Custom material laminating
- Special coating and material treatment

## BLANKING >

- Rigid and flexible materials from .062" to 90" size pieces
- Papercutting
- Sawing
- Chopping
- Drilling
- Shearing
- Machining

## TAPE SLITTING

- Pressure sensitive adhesive backed tapes
- Standard rolls from 1/8" to 42"
- Slitting tolerances from  $\pm .015"$  to  $\pm .032"$
- 24 hour turnaround services available



## ROLLED FORMED PRODUCTS

Essex Active fabricates a complete line of motor and transformer insulations for Motor Repair and OEM applications.

## SLOT INSULATION >

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

## WEDGES, MID STICKS, TOPSTICKS

Wedges: 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.

## WEDGE MATERIAL >

- Nomex®
- Fishpaper
- Commercial vulcanized fiber
- Nomex Mylar Nomex®
- Kraft paper
- Rag paper
- Fiber material
- DMD

## FILMS >

- DuPont Teijin® Films
- DuPont Kapton®
- Melinex®

## COMPOSITE LAMINATES >

- RM
- DMD
- Thermavolt®
- RMR
- NMN
- Mylar®
- TFT
- NKN

## DUPONT NOMEX ARAMID >

- Fiber papers
- Pressboard

## FOUR ACTIVE LOCATIONS TO SERVE YOU

- Clifton Park, NY
- New Haven, IN
- Willowbrook, IL
- Torreon, Mexico



www.superioressex.com

Customer Focused... Performance Driven

## WHY ESSEX BROWNELL?

- Superior Essex Magnet Wire
- Locations Across North America
- Vendor Managed Inventory
- Essex Active
- Full Service Location in Mexico



Essex Brownell  
1601 Wall Street  
Fort Wayne, IN 46802

## MAGNET WIRE

Round, square, and rectangular copper and aluminum are available with Formvar®, Nylon, polyurethane, epoxy, polyester, ML®, polyimide, Dacron®, glass, paper, Nomex®, or Kapton® insulation.

Temperature rating: 105° to 240°C

UL recognized, conform to NEMA standards, and are available to military specifications. Stocked in spools, reels, drums, taper packs or pails.



### MAJOR MANUFACTURERS

- ▶ Superior Essex Magnet Wire

## LEAD/HOOK-UP WIRE

UL and CSA recognized styles including PVC, cross-linked, EPDM, CPE, silicone rubber, Hypalon and Teflon. Other offerings include automotive wire, battery cable, welding cable and bulk cord.

Value Added Services: Cutting, Terminating, Dying, Twisting and Printing.

### MAJOR MANUFACTURERS

- |               |                |
|---------------|----------------|
| ▶ Copperfield | ▶ Belden       |
| ▶ Radix       | ▶ Therm-O-Link |
| ▶ LS Cable    | ▶ Champlain    |



## TUBING & SLEEVING

Sleeving - PVC, vinyl, braided fiberglass, acrylic, silicone rubber, VPI, and Expando. Heat shrink tubing includes Polyolefin, PVC, Kynar and spiral wound polyester film.

Value Added Services: Both sleeving and tubing available in various package sizes, colors and in cut to length sizes.



### MAJOR MANUFACTURERS / BRANDS

- |             |                            |             |                   |
|-------------|----------------------------|-------------|-------------------|
| ▶ 3M        | ▶ Federal Mogul            | ▶ Insul-Tab | ▶ Atkins & Pearce |
| ▶ Suflex    | ▶ Ben-Har                  | ▶ LS Tubing | ▶ Astra           |
| ▶ Astratite | ▶ Zeus Industrial Products |             |                   |

Note: UL, CSA, NEMA, and Military Specifications apply to the appropriate product selection.

## MICA PRODUCTS

Mica papers, tapes, wraps and capacitor papers for VPI, high voltage coil and bar applications, high/low voltage equipment and traction motors. Available in heater/segment plate and sheet form as well as epoxy bonded, silicone bonded and inorganic products.

### MAJOR MANUFACTURERS

- |                               |            |
|-------------------------------|------------|
| ▶ Isovolta/US Samica          | ▶ Von Roll |
| ▶ Ashville - Schoonmaker Mica |            |



## LACING & BANDING

Tapes and cords are available in various materials including polyester, Dacron®, fiberglass, ceramic and cotton. Temperature ranges from 55°C to 200°C. Available with wax, synthetic rubber, silicone resin, Nylon, Teflon® or B-Stage coatings. Surge ropes also available.

### MAJOR MANUFACTURERS / BRANDS

- |                   |                     |                          |                   |
|-------------------|---------------------|--------------------------|-------------------|
| ▶ Atkins & Pearce | ▶ Fibertek          | ▶ Gudebrod               | ▶ Ludlow Textiles |
| ▶ PEI             | ▶ Mutual Industries | ▶ Western Filament       | ▶ Hesgon          |
| ▶ Isovolta        | ▶ Von Roll          | ▶ Carolina Narrow Fabric |                   |



## RIGID INSULATION



Fiberglass is reinforced with polyester, epoxy, or phenolic resins to form various shapes. Nomex®, pressboards, Micarta®, wood, and mica insulation are also available. Products offer excellent flame, arc, and track resistance, in addition to high temperature ratings, dielectric and mechanical strength. Available in sheets, rods, tubes, wedges, topsticks, insulators, molded shapes, and fabricated parts. UL recognized and conform to NEMA standards.

### MAJOR MANUFACTURERS / BRANDS

- |                     |               |                      |               |
|---------------------|---------------|----------------------|---------------|
| ▶ Accurate Plastics | ▶ Glastic     | ▶ Liberty Polyglass  | ▶ EHV Weidman |
| ▶ Resolite          | ▶ Wm F McGraw | ▶ Polyply Composites | ▶ ATI         |

## SOLDER & CHEMICALS

Bar solder, wire solder, solder paste, preforms, brazing alloys, fluxes and chemicals.



### MAJOR MANUFACTURERS / BRANDS

- |                |            |             |
|----------------|------------|-------------|
| ▶ AIM Products | ▶ Canfield | ▶ JW Harris |
|----------------|------------|-------------|

## VARNISH & RESINS / PAINT



Solvent based and solventless polyester and epoxy varnishes and resins. Waterborne polyesters and water emulsion epoxies. Also available: Co-polymers, polybutadiene, alkyds, polyurethanes, air-dry varnishes, hermetic varnishes, adhesives, thinners, and paints. These materials are used in dip and bake, VPI, trickle, roll-through, potting and encapsulating, casting, and conformal coating processes.

Value Added Services: Cold room storage, tank samples, and small kit availability.

### MAJOR MANUFACTURERS

- |  |           |            |                   |
|--|-----------|------------|-------------------|
| ▶ Elantas/PDG (PD George, EpoxyLite, Ranvar, Ripley Resin, Isonel, Guardian, Viking) |           |            |                   |
| ▶ 3M   | ▶ Glyptal | ▶ Vanguard | ▶ Dow Corning     |
| ▶ Von Roll   | ▶ Krylon  | ▶ DuPont   | ▶ Star Technology |

## ADHESIVES & SEALANTS

Acrylic, anaerobic threadlockers, cyanoacrylate, epoxy, polyester, polyurethane, and silicone compounds. Available in liquid, paste, aerosol and hot melt formulations.

### MAJOR MANUFACTURERS

- |                    |               |               |                   |
|--------------------|---------------|---------------|-------------------|
| ▶ Dolph            | ▶ Elantas/PDG | ▶ Dow Corning | ▶ 3M              |
| ▶ Permabond        | ▶ Cyberbond   | ▶ EpoxyLite   | ▶ Star Technology |
| ▶ Adhesive Systems |               |               |                   |



## DOW CORNING ELECTRONIC SILICONE PRODUCTS

Adhesives and sealants, conformal coatings, dielectric gels, encapsulants thermally conductive adhesives, thermal pads, and power materials for long term reliable protection of circuits and components. Primers also available.



## DOW CORNING ELECTRICAL/INDUSTRIAL SILICONE PRODUCTS



Transformer fluid, varnishes, adhesives, sealants, lubricants, greases, anti-friction coatings, heat shrink compounds, mold making materials, binder resins, abrasives, and precision cleaning agents.

## PRESSURE SENSITIVE TAPE

Electrical and industrial tape products with silicone, acrylic and rubber adhesives, and backings including polyester composites, PTFE, polyimide, polypropylene, Nomex®, Teflon®, paper, vinyl, foil, glass cloth, cotton or filament reinforced materials.

Value Added Services: Temperature controlled storage, slitting/ converting of custom sizes, laminating to other materials, less than full case quantities.

### MAJOR MANUFACTURERS

- |            |                |         |
|------------|----------------|---------|
| ▶ 3M       | ▶ IPG          | ▶ Ideal |
| ▶ Permacel | ▶ Saint Gobain |         |

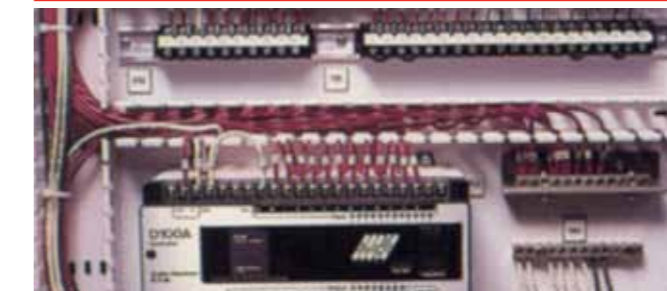


## IDENTIFICATION & MARKING SYSTEM

Computer generated labels, write-on labels, markers for wire and component and general identification requirements.

### MAJOR MANUFACTURERS

- |                          |                   |
|--------------------------|-------------------|
| ▶ 3M Electrical Products | ▶ Brady           |
| ▶ Panduit                | ▶ Hellerman Tyton |
| ▶ National Band & Tag    |                   |



## TERMINALS & CONNECTORS

Solderless terminals, terminal blocks, cable ties, wiring accessories, heat shrinkable products, solder sleeves, and mounting bases.

### MAJOR MANUFACTURERS

- |                          |                   |
|--------------------------|-------------------|
| ▶ 3M Electrical Products | ▶ Molex           |
| ▶ Panduit                | ▶ Hellerman Tyton |

