



The
One Source Solution

WHY ESSEX BROWNELL?

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

1.800.805.4636

fax: 1.800.439.5696



MAGNET WIRE

Round, square, and rectangular copper 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: Available on spools and in drum packages in a variety of colors and striped combinations.

MAJOR MANUFACTURERS

Copperfield Radix Belden Therm-O-Link

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
Western Filament	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



LACING TAPES & CORDS

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	Carolina Narrow Fabric
Isovolta	Von Roll	



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
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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	EpoxyLite	Ripley Resin	Dolph
Dow Corning	3M	Glyptal	Vanguard
Isonel	Ranvar	Von Roll	Guardian

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			

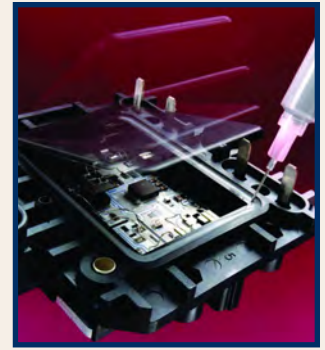


DOW CORNING ELECTRONIC SILICONE PRODUCTS

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.

MAJOR MANUFACTURERS

Dow Corning



DOW CORNING ELECTRICAL/INDUSTRIAL SILICONE PRODUCTS

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

MAJOR MANUFACTURERS

Dow Corning

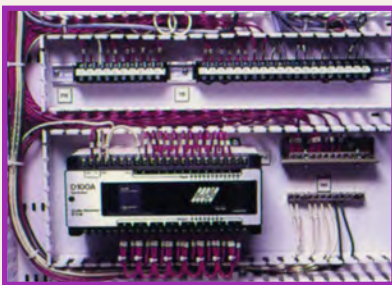
PRESSURE SENSITIVE TAPE

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 SYSTEMS

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

MAJOR MANUFACTURERS

3M Electrical Products	Brady
Panduit	Hellerman Tyton
Reliance Label	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





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 provides a complete range of custom steel rule diecutting and stamping.

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

BLANKING:

- Rigid and flexible materials from .062" to 90" size pieces
- Papercutting ■ Chopping ■ Shearing
- Sawing ■ Drilling ■ 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 slot insulation ranging from slot liners to wedges for service center and OEM applications.

SLOT INSULATION:

- Slot liners
- Slot armor
- Cuffed, taped edges
- 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.

WEDGE MATERIAL:

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

FILMS:

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

COMPOSITE LAMINATES:

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

DUPONT NOMEX ARAMID

- Fiber papers
- Pressboard

THREE ACTIVE LOCATIONS TO SERVE YOU

- Clifton Park, NY
- Willowbrook, IL
- Torreon, Mexico



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