

# LEADING NORTH AMERICAN SUPPLIER

- Technical Expertise
- Customized Solutions
- Quick Response Time
- Fabrication Services
- Premiere Product Offerings
- Network of Locations



 **800-805-4636**  
 **800-439-5696**



## 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
- PPE
- Austral



## 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

- Coleman Cable
- Belden
- Radix
- Therm-O-Link
- LS Cable
- Champlain
- Harbour Industries



## MICA PRODUCTS

Mica papers, tapes, wraps, tubes, fabricated parts and capacitor papers for VPI, high voltage coil and bar applications, high/low voltage equipment and traction motors. Available in heater, segment and molding plates with epoxy, silicone and alkyd vinyl binder types. Also available in inorganic products.

### Major Manufacturers

- Isovolta
- Von Roll
- Asheville - Schoonmaker Mica



## ADHESIVES & SEALANTS

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

### Major Manufacturers

- Elantas PDG (PD George, Epoxylite, Ranvar, Ripley Resin, Isonel, Guardian, Viking)
- Dolph
- Dow Corning
- 3M
- Permabond
- Cyberbond
- Star Technology
- Cytec
- Adhesive Systems



## ENVIROSEAL™ - ELECTRONIC COMPONENT TECHNOLOGY

The Enviroseal process fills and permanently seals leak paths and voids of the part. This process is effective for wires, wire harnesses, terminated connectors, thermistors, over-molded coil windings, and insert and injection mold components that are exposed to harsh environmental conditions.

### Major Manufacturers

- Magna-Tech Manufacturing



## 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
- American & Efid
- 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
- Wm F McGraw
- Polyply Composites
- ATI
- ABB Micafil Vetrelam



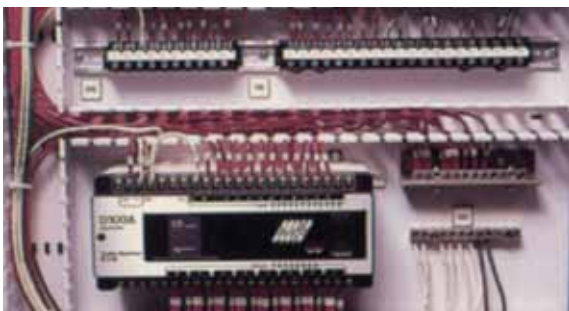
## DOW CORNING SILICONE PRODUCTS

### ELECTRONICS

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.

### ELECTRICAL/INDUSTRIAL/XIAMETER

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



## IDENTIFICATION & MARKING SYSTEM

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

### Major Manufacturers

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

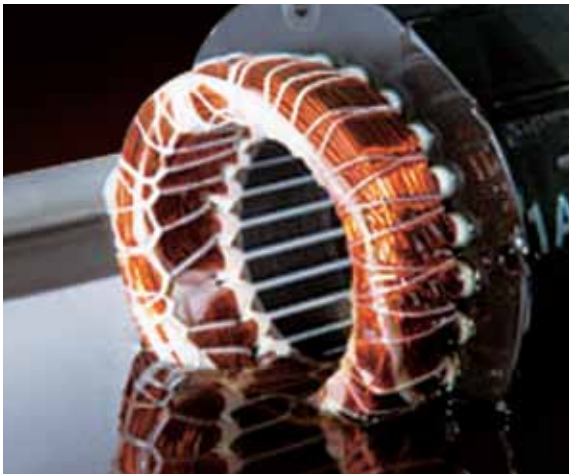


## TERMINALS & CONNECTORS

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

### Major Manufacturers

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



## VARNISH & RESINS / PAINT & CHEMICALS

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
- Von Roll / Dolph
- Sprayon
- Glyptal
- Krylon
- CRC
- Vanguard
- DuPont
- Dow Corning
- Star Technology



## 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/convertng of custom sizes, laminating to other materials, less than full case quantities.

### Major Manufacturers

- 3M
- Saint Gobain
- IPG
- Ideal
- Nitto Denko



## 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
- LS Tubing
- Atkins & Pearce(Suflex & Ben-Har)
- Federal Mogul
- Dunbar
- Insul-Tab
- Hilec
- Zeus Industrial Products

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



## SOLDER

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

### Major Manufacturers / Brands

- AIM Products
- Canfield
- JW Harris

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 PRODUCTS & 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  $\pm .005$ " with  $\pm .015$ " standard

### STAMPING >

- High volume production runs
- Accuracy down to  $\pm .005$ "
- 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  $\pm .005$ " 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

### COMPOSITE LAMINATES >

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

### 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
- Chopping
- Shearing
- Sawing
- Drilling
- Machining

### TAPE SLITTING >

- Pressure sensitive adhesive backed tapes
- Standard rolls from 1/8" to 48"
- Slitting tolerances from  $\pm .015$ " to  $\pm .032$ "

### 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

### FILMS >

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

### DUPONT NOMEX® ARAMID >

- Fiber Papers
- Pressboard
- Nomex® LT

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# BRANCH LOCATIONS

