




Material & Equipment Solutions for the Design and Manufacturing Industries



Head Office
5 Verda Park
Wallingford
Oxfordshire, OX10 9SJ

Connect
+44 (0) 1491 824 788
sales@chilternconnections.co.uk
www.chilternconnections.co.uk

Social
@chilternconnections
  



Materials & Equipment Distribution

We have been a leading distributor of global manufacturers for over 25 years. We work closely with our clients to help identify the materials and dispensing methods required for their specific application, and as we keep a lot of products in stock, we can get them out the door on the same day. From silicones and adhesives through to dispensing and ESD products, we can provide it all for your in-house projects and applications.

A full list of our product ranges are on the pages below or can be found on our website.



Stock Management

For larger accounts, we can offer a stock management service. This is where we hold the products for you, and send you the desired quantity when you require it, providing you with a reliable supply of material.



Repackaging

If the material you need doesn't come in the size you require, we have the ability to repack products into a format that meets your dispensing requirements.*

Material Research & Development

With over 30 years' experience in the field, Chiltern Connections are well placed to carry out testing and development of new materials and dispensing options. We have a real interest in all materials including conformal coatings, contact lubricants, epoxy resins, silicones and much more.

Our chemists have the knowledge and expertise to develop and test the materials in-house. But it doesn't stop there - we have the facilities to test dispensing methods too, so we can hand over the material you need, and the best way of dispensing it.



Research

We work closely with our clients on new and existing projects, helping to identify the materials required for their specific application.



Material Formulation

Our chemists work with the client to develop and test materials to their unique needs and requirements. Our testing procedures are thorough to ensure all materials are fit for purpose.



Application Methods

Once the material has been formulated, we test several dispensing methods to ensure a consistent dispense.





Engineering Bespoke Equipment

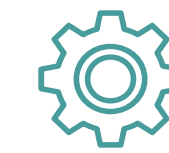
Our Mechanical Design Engineers can help you make your production processes more efficient. From production line equipment to smaller tooling used in your production process, we can help.

Our experience and expertise puts us in a unique position to understand application challenges and allows us to address them. Throughout your project, you'll have a single point of contact who can give advice and updates from start to finish.



Design

We use the latest CAD software, which allows us to design equipment exactly to your specification. We can look at all components in detail in both 2D and 3D, creating an accurate representation of the finished product.



Fabrication

Using precision engineering, we turn design concepts into reality. Whatever quantity you require, from one-off products to large production runs, we can fabricate your bespoke equipment.

Chemical Manufacturer

Electrolube

Over their 70 years of history, Electrolube has continually expanded and developed their formulated chemical products, with a strong emphasis on developing environmentally friendly solutions.

Electrolube's product range is supplied globally to leading manufacturers of electronics, industrial and domestic devices for a variety of industries, offering the 'complete solution' at all levels of production.

Product Range:

- Conformational Coatings
- Contact Lubricants
- Electronic and General Purpose Cleaning
- Encapsulation Resins
- Maintenance and Service Aids
- Thermal Interface Materials

Industry & Expertise:

- Automotive
- Military
- Aerospace
- Transport
- Marine
- Telecommunications
- Medical
- Consumer Electronics
- Industrial Electronics
- Service, Repair and Maintenance

ELECTROLUBE
THE SOLUTIONS PEOPLE



Silicone Partner

Shin Etsu

In 1953, Shin Etsu Chemical became the first firm in Japan to enter the silicones business. In the decades since, Shin Etsu has created a diverse line of products designed to exploit the many useful properties of silicones. Today, they offer over 5,000 products for users in a wide range of industries.

Key Products:

- Silicone Elastomers and Encapsulation Resins for Electronics
- Silicone Greases
- Silicone Rubber for Moulding
- Silicone Oils and Fluids
- Sealants and RTVs

Industry & Expertise:

- Electrical/Electronics Manufacturing
- Auto Manufacturing
- Construction
- Rail
- Cosmetics
- Healthcare
- Chemical Industry



Adhesive Partner

Permabond

Permabond are a global-leading manufacturer of many types of industrial adhesives to suit the needs of a number of different industries.

Key Products:

- Industrial Adhesives

Industry & Expertise:

- Electric Vehicles
- 3D Print
- Aerospace
- Agricultural & Construction Machinery
- Automotive
- Personal Electronic Devices
- Electronics
- Food Safe
- Metal Fabrication
- Fire Protection
- Gas Pipeline
- Lighting
- Marine
- Defence
- Wind Energy
- Transport
- Industry



Anti Stat

Antistat is a trusted partner in ESD and Production Consumables. Their products are the preferred choice in Europe & the US, delivering a robust supply chain to major OEM/CEMs.

Key Products:

- ESD Flooring
- ESD Monitoring Equipment
- Moisture and Static Safe Shipping Materials

Industry & Expertise:

- Electronics
- Medical
- Defence
- Aerospace
- Automotive
- Auto-sport



Desco Europe

Desco Europe is a leading manufacturer and supplier of high quality ESD Control Products and Services. They have specialised in Static Control solutions for the electronics industry for over 40 years.

Key Products:

- ESD
- Anti Static

Industry & Expertise:

- ESD Surveys
- ESD Training
- EOS/ESD Assessments
- Product Tutorials
- Product Demos



Daylight Lamps

The Daylight Company, established in London in 1987, is the leading market innovator in specialty lighting. Contemporary lamps that look and work perfectly in your workshop, lab or office.

Key Products:

- Production Inspection Equipment
- ESD Safe Lamps with Magnification, UV and White Light Modes

Industry & Expertise:

- Industry & Inspection



MG Chemicals

Founded in 1955, M.G. Chemicals is a manufacturer of chemical products for the electronics industry. MG Chemicals are our partner for their EMI and RFI shielding coatings range.

Key Products:

- Conductive Coatings for EMI and RFI Shielding
- Insulation Varnishes

Industry & Expertise:

- Aerospace
- Automotive
- Battery
- Equipment
- LED and Lighting



Elkem

Elkem is one of the world's leading providers of silicones and silicon solutions and uniquely positioned in the market through full ownership of the value chain from quartz to specialty silicones. Their comprehensive range of silicone products includes coatings, engineering elastomers, specialty fluids, emulsions and resins.

Key Products:

- Silicone

Industry & Expertise:

- Automotive
- Electrical/
- Electronics
- Manufacturing
- Construction
- Military
- Aerospace
- Transport Energy
- Healthcare
- Mould-making
- Paper/Textile Coating
- Personal Care
- LED and Lighting





Production Equipment

MeterMix

Established in 1989 METER MIX® is a global manufacturer and supplier of metering, mixing and dispensing machines for processing single and two-component materials.

Materials & Use:

The following materials can be processed with Meter Mix equipment.

- Epoxies
- Polyurethanes
- Silicones
- Polysulphides
- Methacrylate Based Resins
- Greases and Oils



In-House Services



Conformal Coating

As leading conformal coating specialists, we provide high-quality conformal coating services for the protection of printed circuit boards (PCBs) used within a wide range of environments, preventing PCB corrosion and ultimately extending their working life.

We offer acrylic, polyurethane, epoxy, silicone, UV cure and two-part coatings and provide a number of application methods from dipping, spraying, selective coating, and hand brushing to suit client requirements.



Potting & Encapsulation

If your electronics are subjected to strong chemicals, extreme temperatures, mechanical shock or liquid immersion, we would recommend our potting service to protect your components. This is where the PCB is fully encapsulated by a resin – usually polyurethane, epoxy or silicone.

Our experienced team has extensive knowledge in materials, production methods and operating conditions to recommend the correct resin for your PCB, and apply it effectively, without compromising component design.



Conductive Coating

Do you need to shield against electromagnetic interference or radio frequency interference? We have partnered with MG Chemicals and use their metallic filled polymers to create a Faraday cage around your valuable components. This blocks any interference, ensuring full functionality of your equipment. We have several materials we can apply, and our experts would be happy to advise on which would be most suitable for your application.



Small-Parts Coating

Protective coating is not just for electronic components. We provide coatings for corrosion protection, insulation purposes, and lubrication. We can coat mass produced small-parts consistently and evenly with the coating to match your specification. From delicate components to complex geometries, we can help.



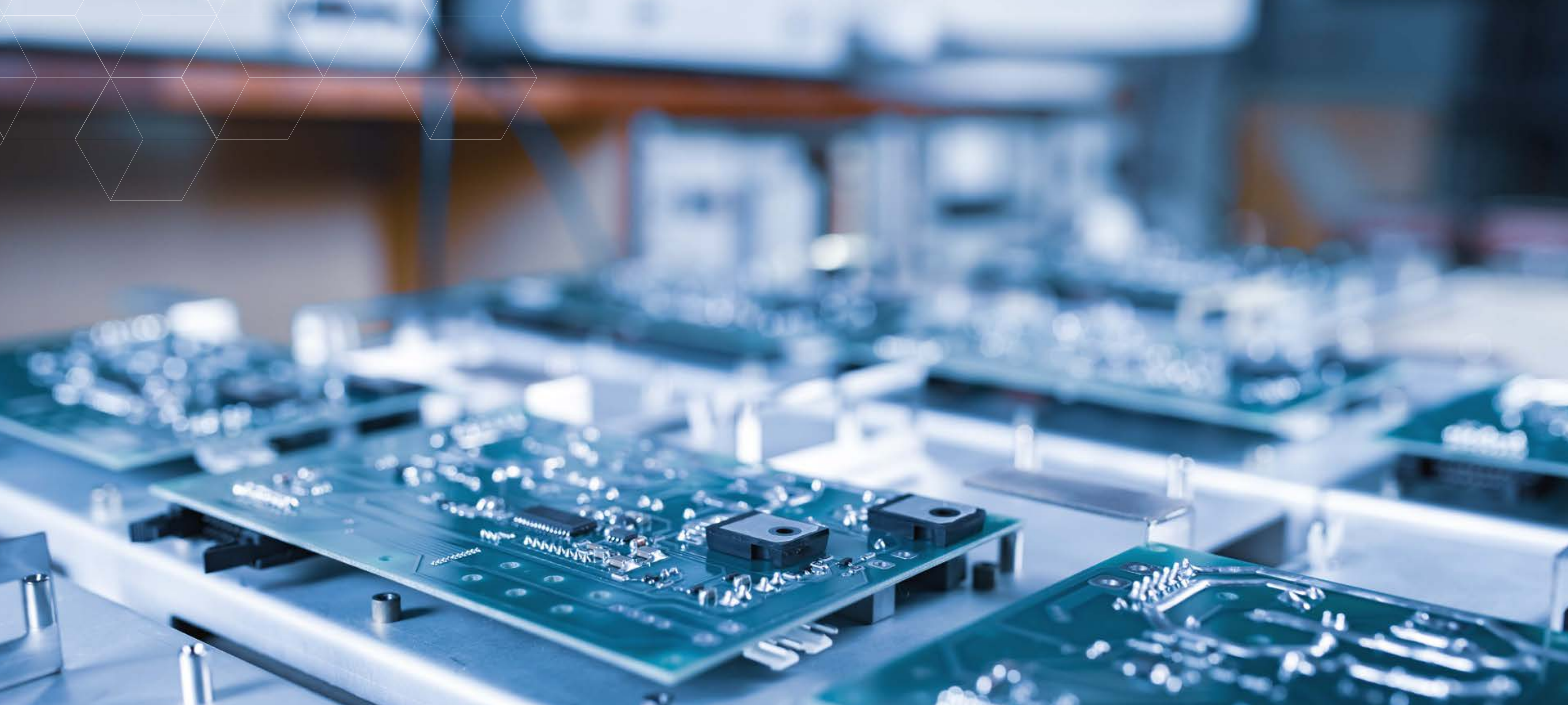
Who Are We?

Trading since 1990, we have become a leading specialist organisation in conformal coating solutions and grown to become a well-trusted distributor of a wide range of materials.

We are a family run engineering company based in the Chilterns, UK and have developed an outstanding reputation for tailoring complete solutions to meet customers' unique requirements worldwide. So, whether you require the best protection for your PCBs, or need practical, scientific advice on materials or equipment, our team of highly experienced consultants will work with you to find the most innovative products and solutions to meet your needs.

To demonstrate our commitment to quality and customer satisfaction, we are ISO:9001 certified. Our robust Quality Management Systems ensure you get the best products and service, every time.

Our enthusiasm and attentiveness doesn't stop there. Good environmental management is integral to our business. That's why we have developed a meaningful Environmental Policy that is committed to reducing our environmental impact and continually improving our environmental performance.



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