

CHILTERN
CONNECTIONS

PROTECTIVE COATINGS · MATERIALS · ENGINEERING



MATERIALS DISTRIBUTION



www.chilternconnections.co.uk

MATERIALS AT A GLANCE

- PROTECTIVE COATINGS
- POTTING & ENCAPUSLATION RESINS
- THERMAL INTERFACE MATERIALS
- ADHESIVES & SEALANTS
- CONTACT GREASES & OILS
- ELECTRONICS CLEANING & SERVICE AIDS
- ESD EQUIPMENT & CONSUMABLES
- DISPENSING
- INSPECTION LIGHTING

ELECTROLUBE

ShinEtsu

DESCOEUROPE

Permabond®
Engineering Adhesives

MG Chemicals

ANTISTAT™
ESD & PRODUCTION CONSUMABLES

**AMORIM
CORK
SOLUTIONS**

NANOFLOW
ADVANCED NANOCOATINGS

METER MIX

daylight
when light matters

Nano-Clear®

SERVICES WE PROVIDE

TAILORED SUPPORT



We provide end-to-end support from the very beginning through to completion. Our expertise helps you choose the right materials and offers clear, practical advice at every stage.

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



If an off-the-shelf solution isn't quite right, or you want to test that it is, we can help. From formulation and testing through to optimised dispensing solutions, we help ensure materials perform exactly as required in real-world applications.

BESPOKE EQUIPMENT MANUFACTURE



By combining practical engineering expertise with a clear understanding of real-world applications, we deliver tailored solutions supported by a dedicated point of contact throughout your project.

*Subject to availability

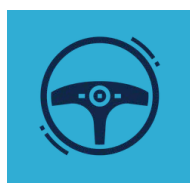
ELECTROLUBE

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

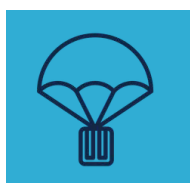
Electrolube's product range is supplied globally to leading manufacturers of electronics, industrial and domestic devices for a variety of industries, offering the 'complete solution' at all levels of production.

Product range:

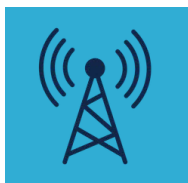
- Conformal coatings
- Contact lubricants
- Electronic and general purpose cleaning
- Encapsulation resins
- Maintenance and service aids
- Thermal interface materials



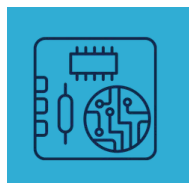
AUTOMOTIVE



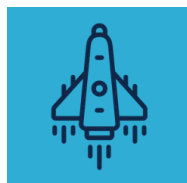
MILITARY



**TELE-
COMMUNICATIONS**



PCB



AEROSPACE



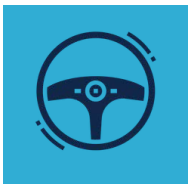
MEDICAL



In 1953, Shin-Etsu Chemical Co. Ltd became the first company to commercialise silicones in Japan. In the ensuing period of more than 70 years, Shin-Etsu has harnessed the fine properties of silicones to develop over 5,000 products that meet user needs in a wide range of industries.

Product range:

- Silicone elastomers
- Encapsulation resins
- Silicone greases
- Silicone rubber for moulding
- Silicone oils and fluids
- Sealants and RTVs



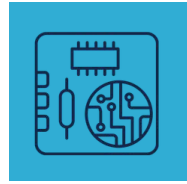
AUTOMOTIVE



RAIL



MEDICAL



PCB

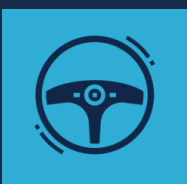
Permabond[®]

Engineering Adhesives

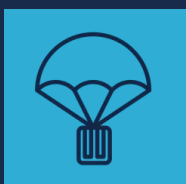
Permabond are a global-leading manufacturer of many types of industrial adhesives to suit the needs of a number of different industries.

Product range:

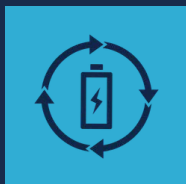
- Industrial adhesives



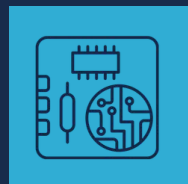
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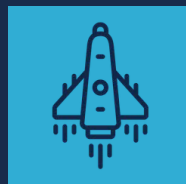
MILITARY



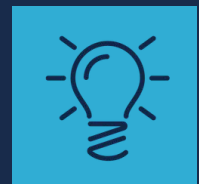
**BATTERY
POWER**



PCB



AEROSPACE



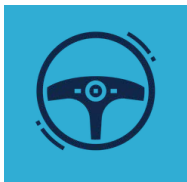
**LED &
LIGHTING**



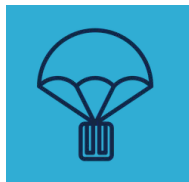
Antistat is a trusted partner in ESD and Production Consumables. Their products are the preferred choice in Europe & the US, delivering a robust supply chain to major OEM/CEMs.

Product range:

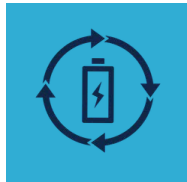
- ESD flooring
- ESD monitoring equipment
- Moisture and static safe shipping materials



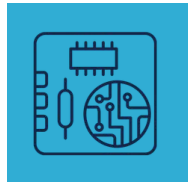
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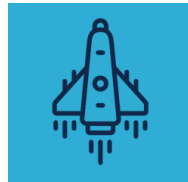
MILITARY



**BATTERY
POWER**



PCB



AEROSPACE



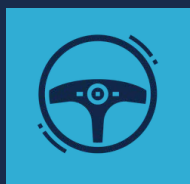
MEDICAL

DESCO EUROPE

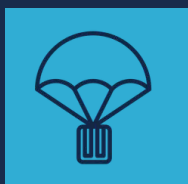
Desco Europe is a leading manufacturer and supplier of high quality ESD Control Products and Services. They have specialised in Static Control solutions for the electronics industry for over 40 years.

Product range:

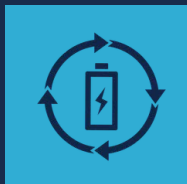
- ESD equipment
- Anti static equipment



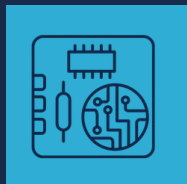
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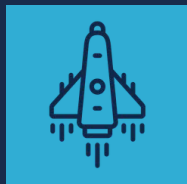
MILITARY



**BATTERY
POWER**



PCB



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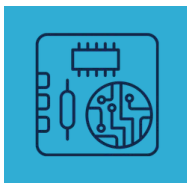
MEDICAL



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.

Product range:

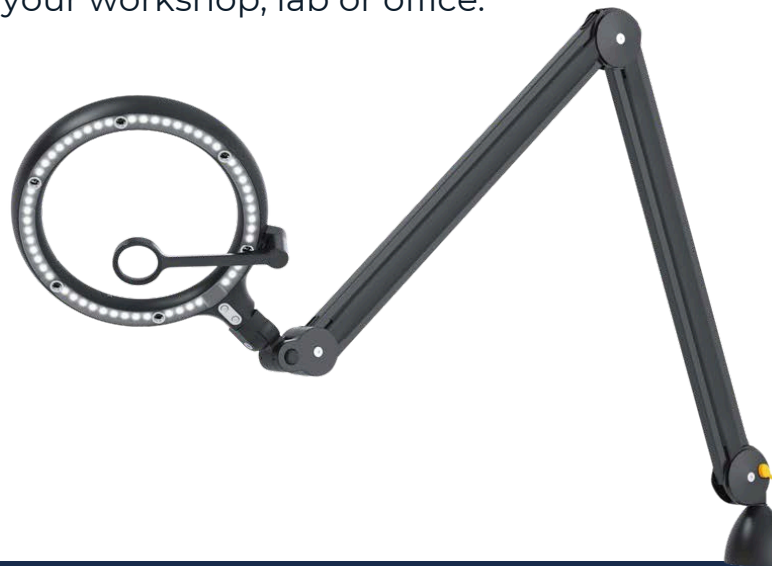
- Inspection lighting
- ESD safe lamps
- UV lighting



PCB



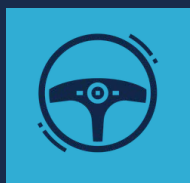
LED &
LIGHTING



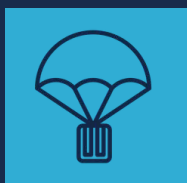
Founded in 1955, M.G. Chemicals is a manufacturer of chemical products for the electronics industry. MG Chemicals are our partner for their EMI and RFI shielding coatings range.

Product range:

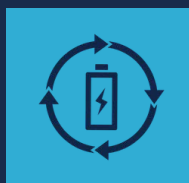
- Conductive coatings for EMI and RFI shielding
- Insulation varnishes



AUTOMOTIVE



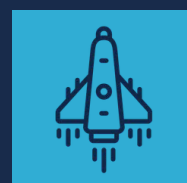
MILITARY



BATTERY
POWER



LED &
LIGHTING



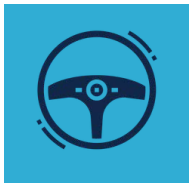
AEROSPACE

AMORIM CORK SOLUTIONS

Amorim Cork Solutions is a global leader in reinventing natural cork by recycling, reusing and transforming this organic material into innovative, sustainable composite solutions for industries. Custom sizing and adhesive backing available.

Product range:

- Thermal pads
- Battery cell spacers
- Seals



AUTOMOTIVE



**BATTERY
POWER**



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

Product range:

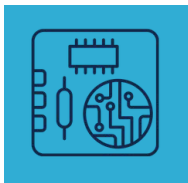
- Metering, mixing and dispensing machines that can process:
 - Epoxies
 - Polyurethanes
 - Silicones
 - Polysulphides
 - Methacrylate based resins
 - Greases and oils



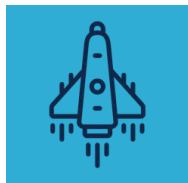
NanoFlowX specialises in providing cutting-edge nanocoating materials for electronic devices and printed circuit boards (PCBs). The ultra-thin coatings are applied quickly and without the need for masking.

Product range:

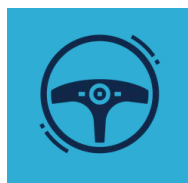
- Nanocoatings
- PFAS-free coatings



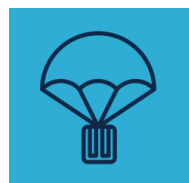
PCB



AEROSPACE



AUTOMOTIVE



MILITARY



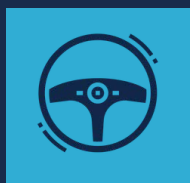
MEDICAL

Nano-Clear[®]

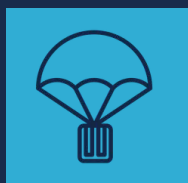
Nanovere Technologies specialises in the research, development and manufacturing of first-to-market nanocoatings with multi-functional properties. The coatings are designed to restore, enhance and extend the lifecycle of painted surfaces by protecting against scratches, UV and chemicals.

Product range:

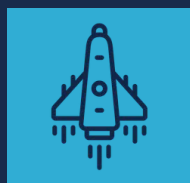
- Industrial coatings



AUTOMOTIVE



MILITARY



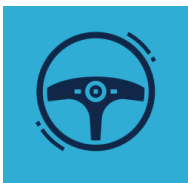
AEROSPACE



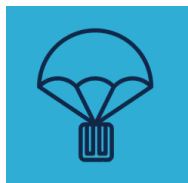
Chiltern Connections formulates their own materials in-house, using a dedicated laboratory and experienced chemist to develop material solutions tailored to specific performance and application requirements. By controlling formulation and testing internally, Chiltern Connections can move quickly from concept to validated material, ensuring consistency, flexibility, and innovation beyond off-the-shelf alternatives.

Product range:

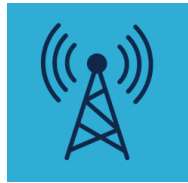
- Silicone cellular coating foams
- Liquid gap pads
- Custom blended greases
- Custom blended coatings



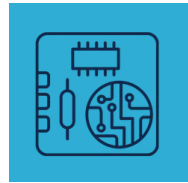
AUTOMOTIVE



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BATTERY
POWER

Silicone Cellular Coating Foams

Our silicone cellular foams are a lightweight potting solution. Available in 3:1 and 10:1 options, the foams offer excellent water and chemical resistance, reliable performance in extreme temperatures, and long-term stability. Their inert formulation resists oxidative degradation, making them a safer choice for people and the environment.

Key benefits and applications:

- Fluid ingress mitigation
- Thermal insulation
- Lightweight
- Acoustic insulation
- Thermostable
- UV resistant
- Free flowing
- Self levelling
- 1:1 mix ratio
- Ambient cure



MATERIAL 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 inhouse. 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 dispensing process.



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.

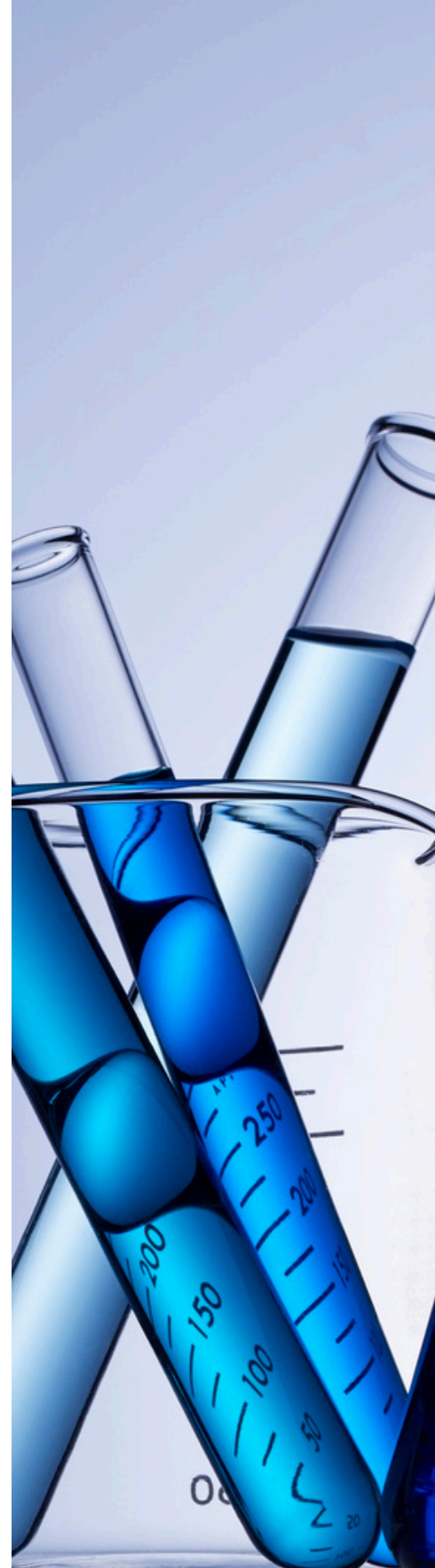


ABOUT US

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.





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