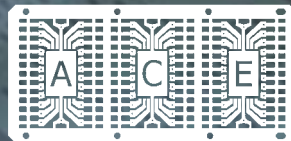


Advanced Chemical Etching



Your problem, our solution... a true partnership





Advanced Chemical Etching – Dedicated to excellence in the manufacture of chemically etched parts

Situated in Telford, Shropshire, England. Advanced Chemical Etching Limited promotes the technology of photo etching throughout the electronics, semi-conductor, telecommunications, aerospace, automotive, precision mechanics, and medical world.

With its modern manufacturing facility, supported by its dedicated staff of highly skilled technicians, Advanced Chemical Etching offer unrivalled service, with comprehensive technical support to customers.

Current trends towards miniaturisation and application specific devices have created a demand for greater flexibility of design and speed of manufacture for prototype development through to full production. Advanced Chemical Etching meets the challenge.

Advanced Chemical Etching – Making a difference

The metal component manufacturing process, Advanced Chemical Etching, enables today's product development engineers even greater flexibility in design plus unbelievably short lead times, from just a few days.

This advantage combined with soft form tooling and numerous plating options – tin, tin lead, nickel, silver and gold – produces fully accurate prototypes.

After approval we can move quickly into pre-production or production volumes.

All this from one supplier "Advanced Chemical Etching".





General information

Advanced Chemical Etching is a manufacturer of metal components, with varying complexity, thickness, form, and finish. From a simple round shim to complex high pin count semiconductor lead frames.

With the flexibility of its processes, quantities of manufactured parts can be from one to one million.

For prototype components to pre-production and up to volume production, Advanced Chemical Etching is the modern answer.

Speed is the by-word to success today, the faster the development parts are made, the quicker our customers get their product to the market place.

It is normal to manufacture components from sight of data, and produce fully functional formed heat-treated and plated first samples within a matter of days, yes DAYS! Production takes a little longer.

Advanced Chemical Etching stocks a full range of metals from 0.0254mm to 1.50mm according to availability, but remember, with the Advanced Chemical Etching process, if the material thickness you require is non-standard, we can reduce it down to the correct thickness from the nearest thicker stock available.

Technical support to our customers is of paramount importance for Advanced Chemical Etching. Currently working in many areas of new technology, developing new processes for the etching of special metals, Titanium, Tungsten, Molybdenum, Hastelloy, Constantan and Tantalum.

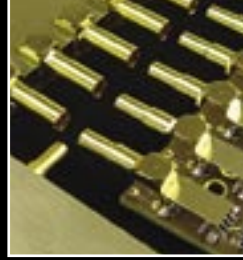


Lead frames

Advanced Chemical Etching is the first stop for lead frame development, pre-production and production. Offering a wealth of experience and knowledge in the manufacture of specific semiconductor lead frames.

Working alongside some of the major component manufacturers in the UK, Europe and around the world, we offer a full service to include design, etching, plating, selective plating, and down-set.

We offer advice on material selection from our comprehensive stock of lead frame suitable metals. Plus help in determining the correct plating finish required. Supporting the latest international requirements in Pb free component supply.




RF Screening

Etching is the fastest process for the development and manufacture of RF Screening requirements. The technology allows for the production of both prototypes and larger quantity, with incredibly fast turn-round times and competitive costs.

A major advantage is the ability to incorporate a feature called half etched lines. This allows for the flat shield to be hand folded along these etched lines, removing the need for expensive forming tools at the prototype stage.

There are many other advantages to using the Advanced Chemical Etching process, including flexibility of design, fast processing of suitable metals and an unrivalled amount of technical support.

One of the latest developments from Advanced Chemical Etching is the application of an internal electrical insulation coating on the screening can, which can be as thin as 10 microns or up to 80 microns thick, depending on specific requirement. This coating can be applied selectively to the inside or outside of the can or both.



Product flexibility

Advanced Chemical Etching allows designers and engineers greater speed and flexibility than ever before.

Tooling

With our ability to convert the main data formats from both 2D and 3D packages, we are able to generate the photo tooling necessary from our 8000 dpi laser plotter, housed in a class 10000 clean room, to produce the component profile on film in a matter of a few hours.

Etching

The blank profile is cut using the Advanced Chemical Etching process. Time scales are dependent on metal type and thickness, but again we are only concerned with hours for the whole process.

Forming

Advanced Chemical Etching offers a full forming service for both prototype and production requirements, within our sister company ACE Forming Limited.

Plating

Once again we offer a full service to our customers, for the plating of both flat and formed components. Plating finishes include Gold, Silver, Nickel, Tin and Tin Lead. It is also possible to plate selective areas even on development prototype parts.



ACE Forming Ltd

A sister company to Advanced Chemical Etching, ACE Forming complements our service to industry.

Undertaking in-house the manufacture of the forming tools, the forming and assembly operations offered by Advanced Chemical Etching. With the same dedication to quality and speed of manufacture expected by our customers.



Inspection & measuring

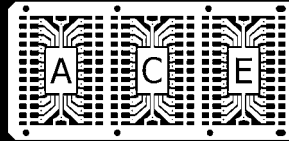
Advanced Chemical Etching is an ISO 9001:2000 accredited company, employing dedicated inspection staff, with a variety of measuring tools including high magnification microscopes, digital micrometers and shadowgraph machines, to maintain full dimensional controls.

Advanced Chemical Etching is unique in the Photo Etching industry, having in-house capability to perform XRF plating thickness measurement, micro section and solderability testing.



Certificate No. 1668

Advanced Chemical Etching



Advanced Chemical Etching Limited
Unit 33, Hortonwood 33
Telford, Shropshire TF1 7EX
Tel: +44 (0)1952 416666 Fax: +44 (0)1952 416667
Email: sales@ace-uk.net
www.ace-uk.net



Certificate No. 1668