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ADVANCED CHEMICAL ETCHING

*a process of innovation*

**AC<sup>m</sup>E process**

**Aluminium Compliant Molecular Etching**





# AC<sup>m</sup>E Technical capability

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Material	Thickness	Profile Tolerance	Hole & Aperture Size	Min External Radii	Min Internal Radii	Convex Etch Cusp Size
Aluminium	0.025mm	+/-0.0125mm	0.125mm	0.075mm	0.08mm	0.025mm
Aluminium	0.05mm	+/-0.0125mm	0.125mm	0.075mm	0.08mm	0.025mm
Aluminium	0.075mm	+/-0.0125mm	0.125mm	0.1mm	0.08mm	0.05mm
Aluminium	0.1mm	+/-0.0125mm	0.125mm	0.125mm	0.1mm	0.05mm
Aluminium	0.125mm	+/-0.02mm	0.125mm	0.125mm	0.1mm	0.05mm
Aluminium	0.15mm	+/-0.02mm	0.15mm	0.15mm	0.13mm	0.05mm
Aluminium	0.2mm	+/-0.02mm	0.2mm	0.2mm	0.15mm	0.05mm
Aluminium	0.25mm	+/-0.025mm	0.25mm	0.25mm	0.19mm	0.05mm
Aluminium	0.3mm	+/-0.03mm	0.3mm	0.3mm	0.23mm	0.06mm
Aluminium	0.38mm	+/-0.04mm	0.38mm	0.38mm	0.29mm	0.08mm
Aluminium	0.4mm	+/-0.04mm	0.4mm	0.4mm	0.3mm	0.08mm
Aluminium	0.45mm	+/-0.05mm	0.45mm	0.45mm	0.34mm	0.09mm
Aluminium	0.5mm	+/-0.05mm	0.5mm	0.5mm	0.38mm	0.1mm
Aluminium	0.6mm	+/-0.065mm	0.6mm	0.6mm	0.45mm	0.12mm
Aluminium	0.7mm	+/-0.075mm	0.7mm	0.7mm	0.53mm	0.14mm
Aluminium	0.8mm	+/-0.09mm	0.8mm	0.8mm	0.6mm	0.16mm
Aluminium	0.9mm	+/-0.1mm	0.9mm	0.9mm	0.68mm	0.18mm
Aluminium	1.0mm	+/-0.12mm	1.00mm	1.0mm	0.75mm	0.2mm
Aluminium	1.2mm	+/-0.15mm	1.25mm	1.2mm	0.9mm	0.24mm
Aluminium	1.5mm	+/-0.2mm	1.5mm	1.5mm	1.25mm	0.3mm



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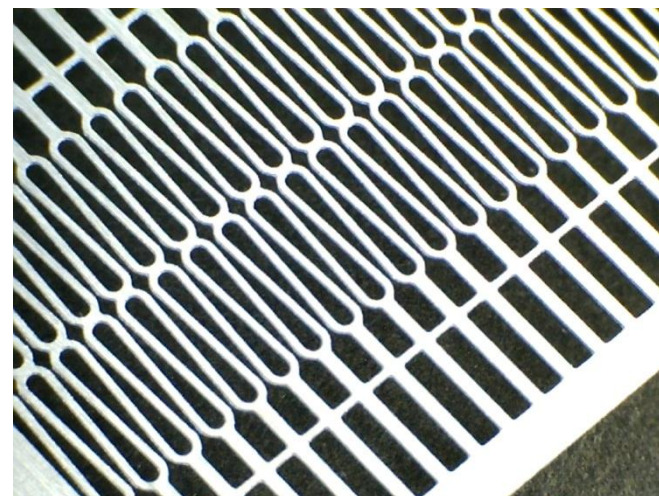
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**AC<sup>m</sup>E**

**Aluminium Compliant Molecular Etching**

**New levels of quality achievable**

Smooth edge profile and smooth surface etch profile





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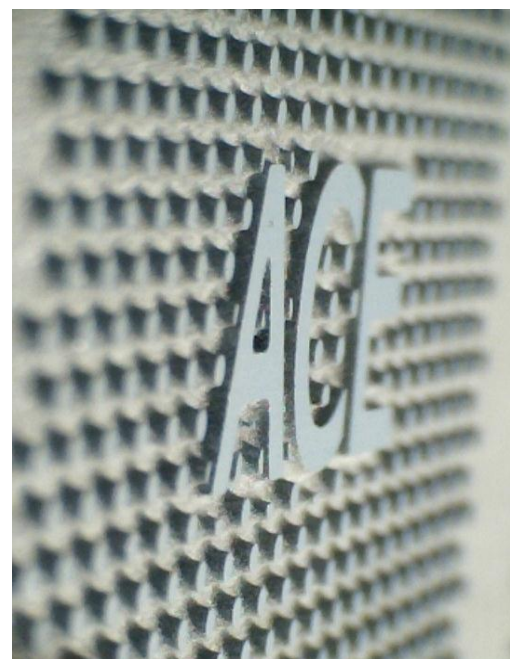
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## **AC<sup>m</sup>E** **Aluminium Compliant Molecular** **Etching**

### **Flexible Process**

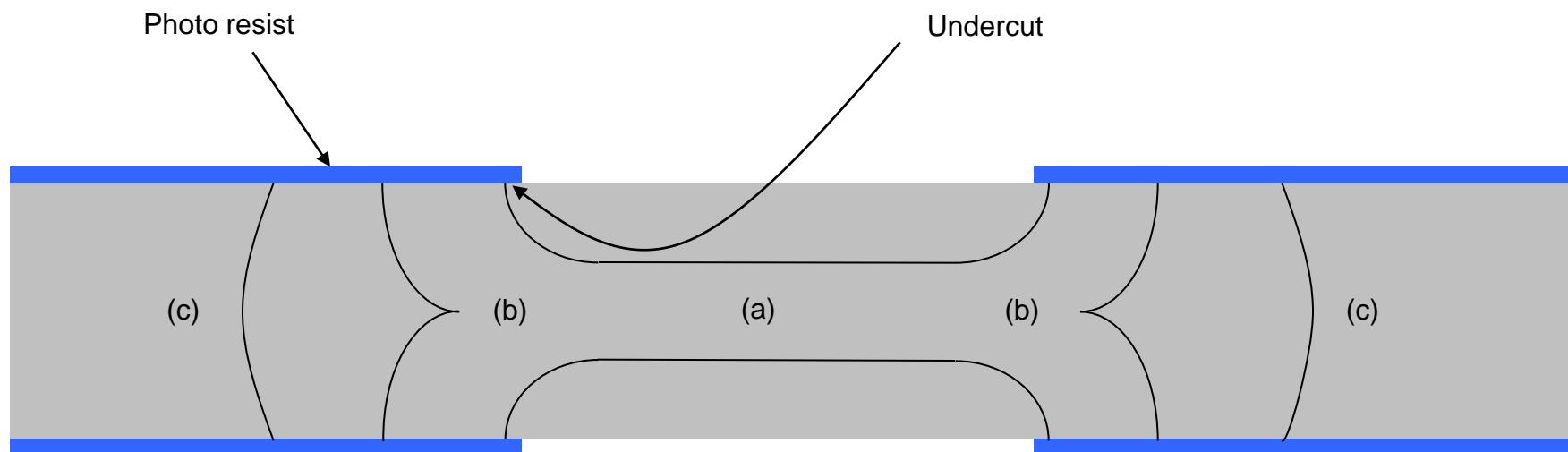
Suitable for all grades and hardness of Aluminium alloy including 'Clad' both single and double sided. To include 1000, 3000, 4000 & 6000 etc.. series specs.





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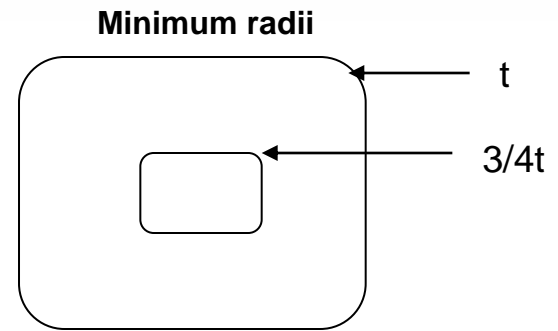
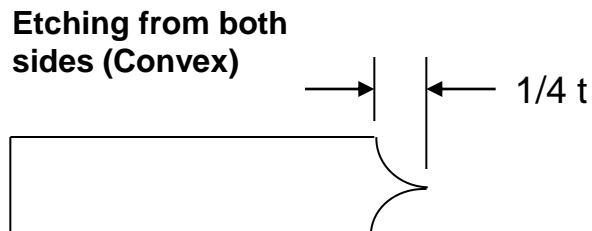
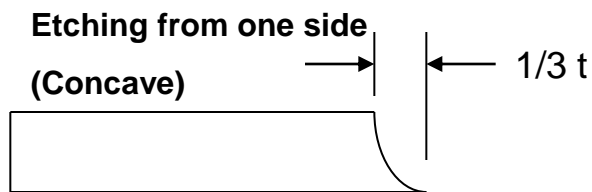
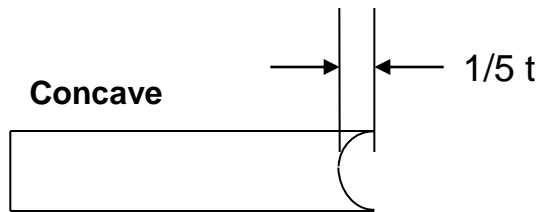


(a) Profile etching, (b) Convex, (c) Concave

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**Tolerance: 10% of material thickness**  
**Bend allowance typically 1.5 t**



**Smallest hole & aperture sizes**

