## Sawn Low-Tension Aluminium Plate



#### **Typical Applications**

- **Tooling Aerospace Industry**
- CNC-Components
- Mould and Gauge Making
- Tool Technology
- Food TechnologySecurity and Medical Technology
- General and Precision Engineering

#### **Product Description**

ACP 5080R aluminium tooling plate is an outstanding material which benefits from added qualities whilst offering costs savings due to the materials' excellent machinability. ACP 5080R is a low porosity alloy with fine grain structure and has outstanding dimensional stability combined with good mechanical and physical properties.

#### **Key features**

- . Low porosity
- . Fine grain structure
- Excellent machining characteristics
- Dimensional stability
- Good mechanical & physical properties Cost saving material

### Availability

**Tooling Plate** 

**Corrosion resistance** 

Very good

Weldability

Good

# **Mechanical Properties**

Tensile Strength Rm 0.2 % Yield Strength Rp 0.2 Elongation A 5 % **Brinell Hardness HB** 

240 - 290 MPa (N/mm<sup>2</sup>) 110 - 130 MPa (N/mm<sup>2</sup>) 15 70

# **Physical Properties**

Density Thermal Conductivity **Electrical Conductivity** Modulus of Elasticity **Coefficient of Thermal Expansion**  2.66 g/cm<sup>3</sup> 110 - 140 W/(mK) 16 - 19 MS/m (m/Ω mm<sup>2</sup>) ~70,000 N/mm2 24.2 x10<sup>-6</sup>/K

# **Technical Assistance**

Our knowledgeable staff backed up by our resident team of qualified metallurgists and engineers, will be pleased to assist further on any technical topic.

UK Service Centres:				Quality & Testing:	
Smiths Belfast	02895 908 897	Smiths Leeds	0113 307 5167		* 1
Smiths Biggleswade	e 01767 604 704	Smiths Manchester	0161 794 8650		
Smiths Birmingham	0121 728 4940	Smiths Norwich	01603 789 878	Quality Management	
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