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/mm²) 110 - 130 MPa (N/mm²) 15 70

Physical Properties

Density Thermal Conductivity **Electrical Conductivity** Modulus of Elasticity **Coefficient of Thermal Expansion** 2.66 g/cm³ 110 - 140 W/(mK) 16 - 19 MS/m (m/Ω mm²) ~70,000 N/mm2 24.2 x10⁻⁶/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	
Smiths Bristol	0117 971 2800	Smiths Nottingham	0115 925 4801	Systems CERTIFIED	
Smiths Chelmsford	01245 466 664	Smiths Redruth	01209 315 512	CERTIFIED	TESTING
Smiths Gateshead	0191 469 5428	Smiths Verwood	01202 824 347		1930
Smiths Horsham	01403 261 981	Main Office	0845 527 3331	www .smithmetal .com i	nfo@ smithmetal .com

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