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

Kastal® 100 aluminium tooling plate is an outstanding material which benefits from added qualities whilst offering costs savings due to the materials' excellent machinability. Kastal® 100 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 | | · · · · · · · · · · · · · · · · · · · |
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| Smiths Birmingham | 0121 728 4940 | Smiths Norwich | 01603 789 878 | Quality Management | |
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| Smiths Horsham | 01403 261 981 | Main Office | 0845 527 3331 | www .smithmetal .com i | nfo@ smithmetal .com |

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