

Typical Applications

- Tooling Aerospace Industry
- CNC-Components
- Mould and Gauge Making
- Tool Technology
- Food Technology
- Security 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	240 - 290 MPa (N/mm ²)
0.2 % Yield Strength Rp 0.2	110 - 130 MPa (N/mm ²)
Elongation A 5 %	15
Brinell Hardness HB	70

Physical Properties

Density	2.66 g/cm ³
Thermal Conductivity	110 - 140 W/(mK)
Electrical Conductivity	16 - 19 MS/m (m/Ω mm ²)
Modulus of Elasticity	~70,000 N/mm ²
Coefficient of Thermal Expansion	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:

Smiths Belfast	02895 908 897	Smiths Leeds	0113 307 5167
Smiths Biggleswade	01767 604 704	Smiths Manchester	0161 794 8650
Smiths Birmingham	0121 728 4940	Smiths Norwich	01603 789 878
Smiths Bristol	0117 971 2800	Smiths Nottingham	0115 925 4801
Smiths Chelmsford	01245 466 664	Smiths Redruth	01209 315 512
Smiths Gateshead	0191 469 5428	Smiths Verwood	01202 824 347
Smiths Horsham	01403 261 981	Main Office	0845 527 3331

Quality & Testing:



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