

Al (Aluminium Entry Board)



Product description

Our Al-Entry Boards are based on the alloy AW-3105. The chemical designation is AlMn0.5Mg0.5. The product is available in various thicknesses. The material is extra hard to guarantee best results in the drilling process.

Application

Our Al sheets are mainly used as entry material for drilling printed circuit boards to achieve

- excellent hole quality.
- excellent center drilling and positioning
- precise flatness
- optimum hardness and good chip removal
- good heat transfer

Process parameter

The material is compatible with all drilling machines. Specific drilling parameters depend on the type of drilling machine.

Material properties

Type:	AW-3105
Chemical designation:	AlMn0.5Mg0.5
Temper designation:	H19 (strain hardening, extra hard)
Surface:	mill-finish
Surface roughness:	0.15-0.70 µm
Tensile strength R _m :	≥ 215 MPa
Offset yield point R _{p0.2} :	≥ 190 MPa
E-Modulus:	64000-71000 Nmm ²
Melting point:	640-655 °C

Storage & handling

Temperature:	15 – 25 °C
Humidity:	40 – 65 %
Storage:	flat in original package until usage.

Availability

Thickness:	0.18 mm; 0.20 mm; 0.24 mm; 0.28 mm
Sheet size:	1230x1070 mm; 1230x930 mm; 1250x1095 mm
Cut to size:	according customer request

The typical values are based on data from production and from sample measurements in the lab. This data should be considered as general information. It is the responsibility of the user to ensure that the product complies with his requirements.

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