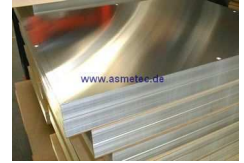




Drill Entry Board METOTOP[®] ALU 3003



Product Description

METOTOP ALU 3003 is a drill entry board based on a new aluminium alloy developed by ASMETEC, resulting from our long time experience with drilling materials. It was optimised to meet the stringent quality standards of the modern circuit board industry. Fine line and multi-layer circuits require precision drill materials, and the increasing ratio of micro holes demands from a drill board material characteristics which standard aluminium foil cannot provide.

With METOTOP ALU 3003 a drill entry material is offered which meets the special technical and economical micro drilling requirements.

Features

- Significant increase of drill bit life due to an optimised alloy for the micro drilling process; the special alloy has good chipping properties and thus keeps the cutting edges of the drill clean and reduces the danger of epoxy resin build-up in the flutes; the excellent heat dissipation cools the drill bit, especially if used in conjunction with drill back-up materials of the METOBACK- or MEDTODRILL series - a clean and cool drill lasts considerably longer
- Protection of the circuit board against scratches and pressure foot marks (scrap reduction)
- Routing is possible without major burr when 2-edge-routers are used
- Optimum drill centering due to defined surface roughness
- Reduced burr and drill wandering because of excellent planarity due to usage of tension levelling equipment during the manufacturing process of METOTOP ALU 3003
- Excellent burr reduction due to high surface hardness and material stiffness
- Elimination of hole contamination due to an alkaline degreasing step
- Reduced risk of drill breakage due to a smooth and scratch free surface
- Various thicknesses for optimum adaptation to different technical and handling conditions
- Available in individual panel sizes with or without punched registration holes; fast and inexpensive

Technical Data

Temper:	H 19 extra hard
Tensile strength:	> 240 Mpa; EN 541
Density	2,71 kg/ccm
Elongation:	> 3 %
Surface roughness:	approx. 3.5 µm ± 1 µm
Warpage:	< 1 % of edge length
Thickness tolerance:	± 5%

Recycling

METOTOP ALU 3003 can be totally recycled. The energy needed for the recycling process is only 5 % of the original energy spent to produce virgin aluminium sheets. Returning METOTOP ALU to ASMETEC saves cost and is an active step in environmental protection.

Quality Control

The production meets DIN EN ISO 9001 standards with tight tolerances far below usual DIN standards. ASMETEC's strict manufacturing and quality control specifications do not allow any failure and ensure constant quality. These restrictions reduce the number of potential suppliers and exclude cheap imports from countries with a low technical and ecological level, but on the other hand the constant quality level of METOTOP ALU ensures a smooth production flow at the pcb manufacturer and helps to prevent production losses due to inferior materials.

Sizes and Packaging

Sheet sizes 1080 * 1165 mm, 930 * 1230 mm and 1.080 * 1.230 mm are available from stock. Standard packing units are:

Type 3003-18:	0.18 mm ± 5 %	1.000 sheets/pal.
Type 3003-20:	0.20 mm ± 5 %	1.500 sheets/pal.
Type 3003-24:	0.24 mm ± 5 %	1.000 sheets/pal.

Precut blancs

Panels can be cut to size and punched acc. customer's drawings at any quantity