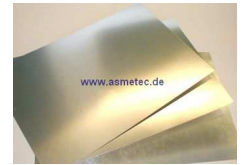


Drill and Routing Entry Sheet

METOTOP[®] APA-20 and APA-25



General Description

METOTOP[®] APA is recommended as an entry sheet for drilling printed circuit boards with fine and micro holes. It is also recommended as entry board for drilling softer materials and laminates such as Polyimid and PTFE.

METOTOP APA – Series is made exclusively for ASMETEC based on our long term experience in drilling materials and considering the requests of our customers.

METOTOP APA is made of an aluminium-craft-paper compound, with a core of fully cured phenolic paper, manufactured on equipment of latest technology.

METOTOP APA is coated on both sides with an extra hard 50 µm aluminium foil with a determined surface structure for best possible drill centering. The symmetric construction allows best drill guide, excellent reduction of burr and easy handling all in one.

The hard but thin surface ensures a quick and accurate drill centring, especially for fine- and micro drills. METOTOP APA has excellent cutting properties and generates while drilling a fine, non adhesive dust which can easily be removed through the drill flutes.

Technical Properties

- Excellent drill bit centring and drill guidance
- Very good suppression of burr
- No abrasive additives
- Free of FHC, formaldehyde and hydrophobic additives
- Symmetric 3-layer compound
- Cuttable on guillotine shears and saws

Technical Data

Thickness APA-20:	0.20 mm ± 10 %
Thickness APA-25:	0.25 mm ± 10 %
Structure:	3-Layer compound
Size:	930 x 1.235 mm ± 2 mm 1.080 x 1.235 mm ± 2 mm
Precut blanks	all sizes available
Packing:	500 sheets/pallet
Colour:	Aluminium, brown core

Economical Properties

- Easy handling due to symmetric structure, no preferred direction to be considered while stacking.
- METOTOP APA cleans the cutting edges of the tools and keeps them sharp for a longer time. The drill dust can easily pass the flutes. In total there is less drill heat generated which subsequently keeps the carbide in a more stable temperature area.
- The excellent drill centring and drill guidance increases productivity especially while drilling fine and micro holes.

Quality Control

METOTOP APA undergoes a permanent quality control acc DIN EN ISO 9001. Shades of colour are due to processing and do not have any influence on the material characteristics or properties of METOTOP APA.

Waste Disposal

METOTOP APA can be burned thus providing heat energy, considering local laws. A burning temperature > 800°C and sufficient oxygen are recommended.

Storage

METOTOP APA is hydrophilic at the cutting edges and therefore should remain in the original moisture proof packing until use. Rapid changes of temperature and moisture must be avoided. Warpage due to moisture is hard to revert.