

Drill Entry Material & Solid Aluminum Lamination Grade Foil

Composition and Mechanical Properties

B10 is composed of aluminum alloy with fully hardened aluminum.

In an on-going effort to exceed our industry's ever changing needs, JJA has nurtured a close working relationship with many of the premier aluminum suppliers in North America. Our combined goal is to provide the printed circuit board industry with product that is superior in the critical areas of surface quality and mechanical properties.

Product Comparison

Product:	B10	Composite	Phenolic	Paper
Heat Sink Capability	Excellent	Fair	None	None
Reduces Smearing	Excellent	Fair	None	None
Improves Registration	Excellent	Fair	Good	Poor
Reduces Burrs	Excellent	Fair	Fair	Poor
Bushing Effect	Excellent	Fair	Fair	None
Eliminates Resin	Excellent	Fair	Poor	Poor
Flatness	Excellent	Fair	Fair	None
Prevents Elongation	Excellent	Fair	Poor	Poor
Brinell Hardness	Excellent	Poor	Poor	Poor
Recyclable	All	None	None	None

Specifications

Sizes: Standard Sheets:

- 36 x 42 inch
- 36 x 48 inch
- 42 x 48 inch
- 48 x 48 inch

Thickness: 0.007", 0.010", and 0.015".

Tooling: Flexible on-line tooling capabilities.

Benefits:

- Higher Brinell hardness. Higher yield and shear strength.
- Tension leveled and degreased for contamination-free holes, closer tolerances and improved registration.
- A superior heat sink for the drill bit.
- A melting point of 1190°-1200°. Cleans drill bit flutes for quick ejection of chips. Reduces heat.
- Permits lower surface feet per minute drilling and an increased feed rate.
- Eliminates hole wall smearing thereby increasing the life of the drill bit.
- Eliminates burrs by reducing the back pressure on the drill bit upon entry.
- Eliminates delamination of the copper layers from the laminate.
- Varying thicknesses from 7 to 15 mils for specific chip load applications.
- Recyclable.

[Back to B10 Main](#)

*For more information on price and delivery, contact:
JJA, Inc., or your local representative.*