



ventec

INTERNATIONAL GROUP

騰輝電子

PCB CONSUMABLES



CENTRUM LUBRICATED DRILL ENTRY

MATERIAL DATASHEET

INTRODUCTION

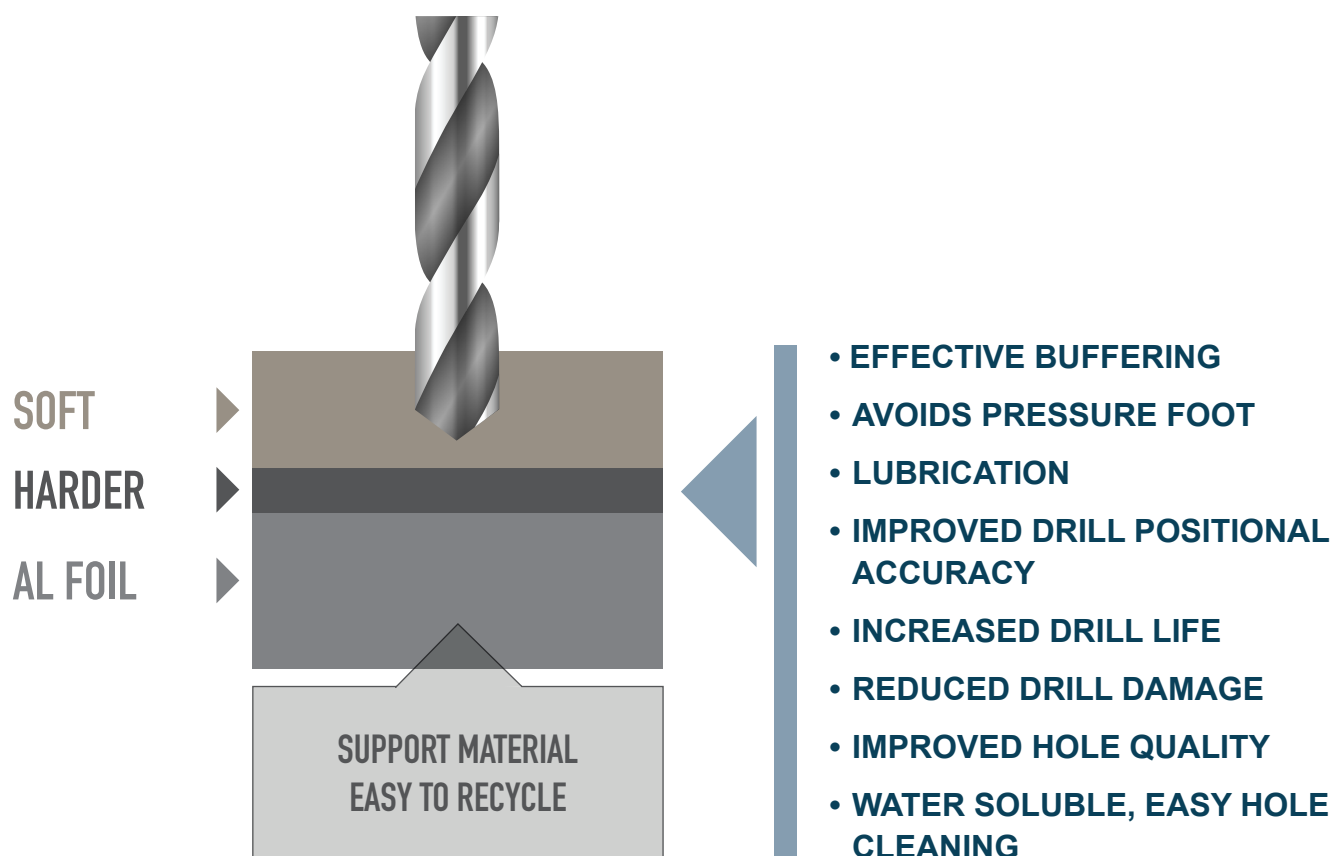
Centrum Lubricated Entry Foil has been developed such that the surface of the aluminium has hard, medium, and soft variances of hardness, on the drill entry surface. This, combined with an optimised aluminium surface, allows the drill bit to 'centre' on the target location accurately,

prior to entering the 'drill' zone of the PCB, thus effectively reducing the chances of drill wander and breakout. The thermal dissipation and lubrication properties, significantly extend drill life, process capability and hole wall quality.

GENERAL INFORMATION

- The proprietary coating, provides a unique surface for the drill to centre and stabilise before entering the laminate surface
- Greater hole positional accuracy and increased cpk, at the drilling process
- Lubricating and heat dissipating design decreases hole roughness
- Improves drill positional accuracy, reducing drill deviation through the stack, and reduced incidence of burring
- Reduction in heat and wear of drill bit, thus increasing drill bit life and drill breakage rate
- Hydrophilic lubricant allowing easy removal of drilling debris.
- Allows for increased stack height, thus increasing drill capacity and machine utilisation / efficiency.
- Significantly improves quality of drilled holes, particularly micro hole drilling, required to manufacture today's BGA and micro-BGA, HDI PCB's.

CONSTRUCTION AND AVAILABILITY



| PRODUCT CODE | ALUMINIUM THICKNESS | FILM THICKNESS | TOTAL |
|--------------|---------------------|----------------|---------|
| AL150050 | 0.150MM | 0.050MM | 0.200MM |
| AL100030 | 0.100mm | 0.030mm | 0.130mm |

AVAILABILITY

ALL COMMON SIZES TO SUIT STANDARD PANELS

DRILL ACCURACY COMPARISONS

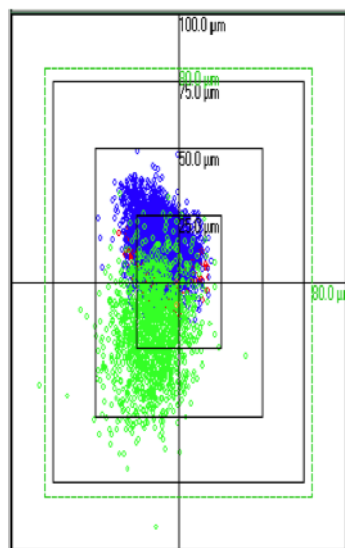
Competitor (BE +SB). Tests carried out independently at Impex.

KEY

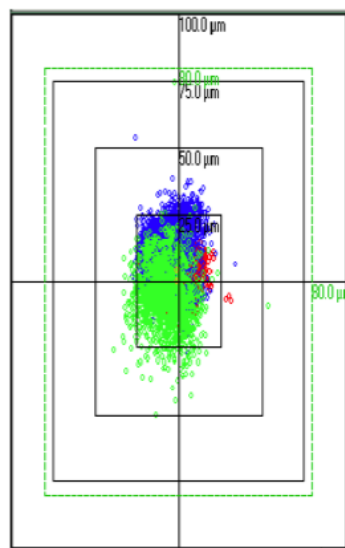
0.25MM

0.35MM

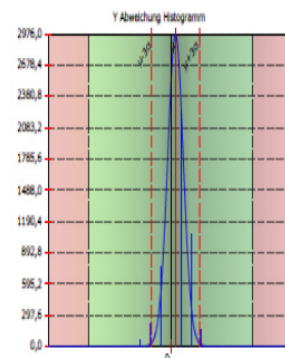
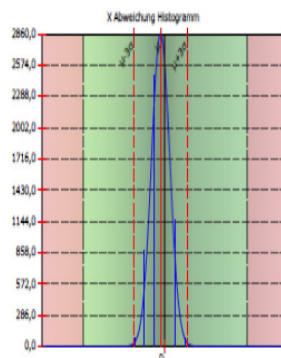
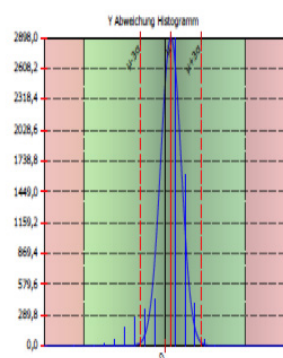
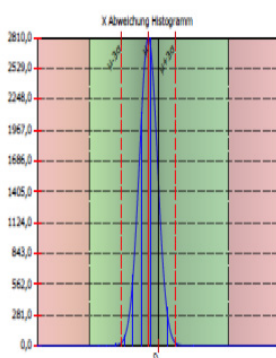
1.6MM



BE & SB



AL150050 & STANDARD BACKING



SUMMARY

Centrum Lubricated Entry Foil offers a cost effective solution to todays 'high accuracy' drilling challenges

- Improved yield and machine utilisation.
- Water soluble and 'grease free' for contamination free holes, closer tolerances and improved drill accuracy.
- Excellent heat dissipation for extended drill bit life.
- Composite construction designed for clean drill bits and quick ejection of waste.
- Allows for lower surface feet per minute drilling and an increased feed rate.
- Reduces or eliminates hole wall smearing, increasing drill bit life and improves efficiency of desmear process.
- Recyclable.

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