



**ventec**  
INTERNATIONAL GROUP

PCB CONSUMABLES



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**2.50T GLOSSBACK25  
RH-80**

**LUBRICATED  
BACKUP BOARD**

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**MATERIAL DATASHEET**

# INTRODUCTION

**GlossBack25 (RH-80)** is a new type of composite drill backing board. The main features are drill bit cooling, lubricating and drill bit cleaning, guaranteed by a unique and patented engineered surface resin system.

The unique resin system offers low melting point lubricating characteristics, minimizes drill bit temperature rise and maximizes drill life. The resin system is water-soluble and easily removed during subsequent wet processing.

# GENERAL INFORMATION

- **Reduced Drill Temperature** - GlossBack's unique lubricated resin layer significantly reduces drill temperature, minimizing drill wear and thus minimizing heat related hole defects.
- **Improved Hole Wall Quality** - the lubrication of the drill, provided by the unique resin layer, significantly reduces hole wall roughness and extends drill life.

Item	Ingredient	
Product Name	GlossBack25 Lubricated Backup Board	
Product Code	GlossBack25 (RH-80)	
Composition	High Quality HDF	89%
	Paper	5%
	Lubricated Resin Layer	5%
	Unsaturated Polyester Resin	1%

# SPECIFICATION

Specification	Data		Unit	Notes
Thickness	2.50		mm	/
Thickness Tolerance	± 10%		mm	/
Density	≥ 800		Kg/m <sup>3</sup>	/
Surface Hardness	≥ 72		Shore D	/
Warp	≤ 0.9		%	/
Size & Tolerance	940x1245	+4	mm	37"x49"
	1041x1245	-0		41"x49"
	1092x1245			43"x49"
	510x610	± 2		/
Storage	1. Keep dry & flat at room temperature, use moisture-proof packing and keep away from heat & water sources. Stack, maximum 3 pallets high. 2. Keep away from direct sunlight. Storage temperature: 5~25°C; humidity <60% 3. Shelf life: 1 year from delivery date (when stored in sealed original packaging)			
Sheets can be cut to customer required panel size.				

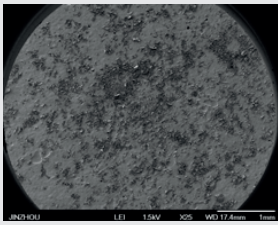
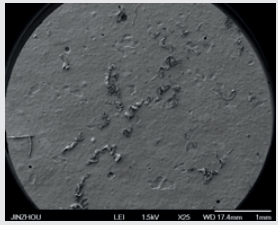
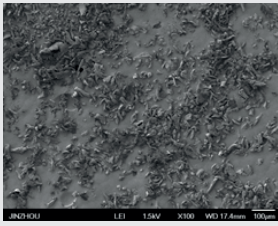
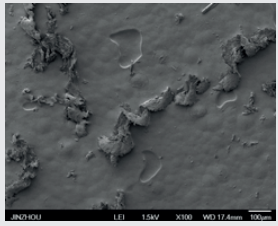
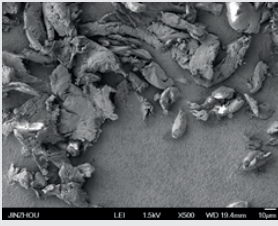
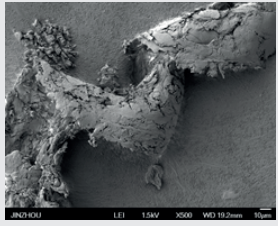
# CONSTRUCTION



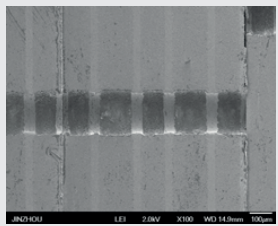
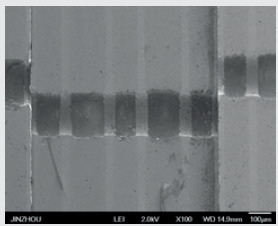
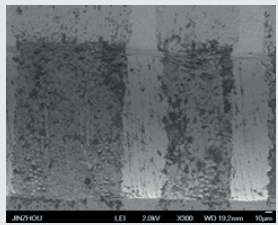
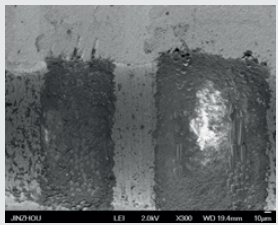
Item	Material	Thickness (mm)	Function
1	Premium HDF	2.40	Core material & supporting
2	Water soluble & lubricated Resin Layer	0.025-0.03	Cooling & Cleaning
3	Enhanced resin layer, maximizing surface hardness	0.05-0.075	Increased surface hardness, significantly reducing drill burrs

# COMPARATIVE DATA


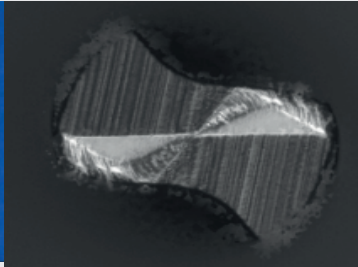

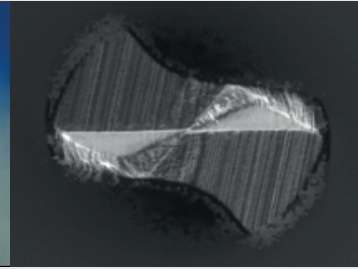
## Chipping Debris

	Ventec GlossBack25 / RH-80	Comp Lub Product
25 X		
100 X		
500 X		

## Hole Wall Quality

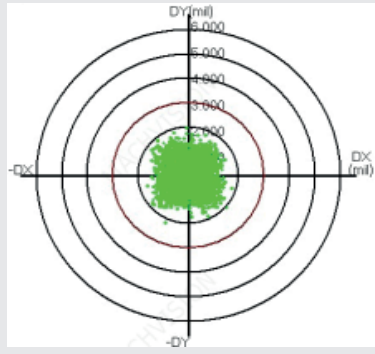
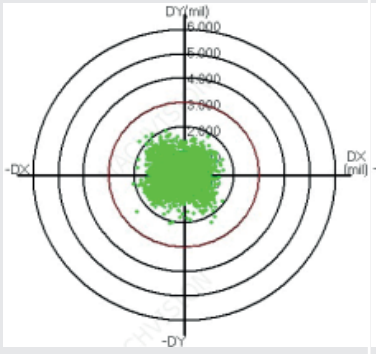
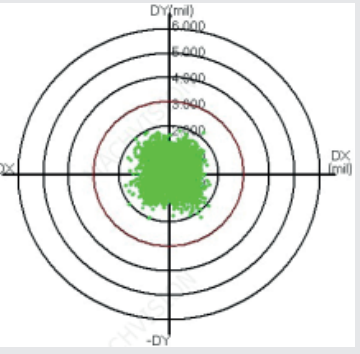
	Ventec GlossBack25 / RH-80	Comp Lub Product
100 X		
300 X		

## Drill Wear

Backer	Drill Wear		Remarks
Ventec Glossback25 / RH-80			<ul style="list-style-type: none"> <li>• Reduced drill wear</li> <li>• No drill residue remaining in flute</li> <li>• Lubricant non-tacky</li> </ul>
Comp Lubricated Product			<ul style="list-style-type: none"> <li>• Larger drill wear</li> <li>• Drilling residue remaining in flute</li> </ul>

## Drilling - Material Comparison

Item	Specification
Drill Bit	Toshiba 0.3mm
Parameter	S135 F1.4 R18
Entry Board	Solid Aluminum Entry Sheet
CCL/PCB Type	High Tg
Backup Board	RH-80 / Melamine Board / Comp Lub Product

	GlossBack25 / RH-80	Melamine Board	Comp Lub Product
CPK			
	1.963	1.956	1.909

# SUMMARY

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## **GlossBack25 offers a cost effective solution to todays 'high accuracy' drilling challenges**

- Reduced drill temperature and drill wear.
- Increased hit counts, reducing cost per hole drilled.
- Increased stack heights.
- Excellent drill cleaning and chip formation.
- Improved hole-wall quality.
- Reduced costs.