

Segments

Applications

Products



**VSM CBN**  
**VSM DIAMOND**

**Tough abrasives for  
brittle materials**

## Better known as Super Abrasives

Diamond and Cubic Boron Nitride (CBN) are two abrasive minerals known to exceed the hardness of their conventional counterparts, and are therefore referred to as "Super Abrasives." They distinguish themselves through greater material removal rates, outstanding durability, low grinding temperatures and a consistent level of quality over a larger number of workpieces.

When compared to standard coated abrasives, Super Abrasives require a unique galvanic bond for increased durability. This type of bond is characterized by a single layer of mineral anchored to the backing by a metal alloy. VSM Abrasives uses a patent-registered manufacturing method, utilizing copper, to ensure longer service life of the abrasive product.

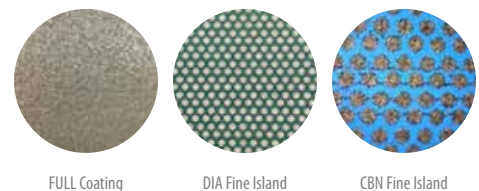
VSM Series	Backing Material	Special Feature	Grit Size							Product Form							
			357 µm (P40)	251 µm (P60-80)	126 µm (P120)	91 µm (P180)	64 µm (P240-320)	46 µm (P400)	30 µm (P500)	Narrow Belt	Wide Belt	Discs	Rolls	Sheets			
<b>VSM CBN</b>																	
BA970X	Aramid Cloth	FIF		□	□	□	□	□		●		●					
BA960Y	Aramid Cloth	FULL			□	□	□	□		●		●					
<b>VSM DIAMOND</b>																	
DA931X	Aramid Cloth	FIF, ♠		□	□	□	□	□		●		●					
DA930X	Aramid Cloth	FIF	□	□	□	□	□	□		●		●					
DA920Y	Aramid Cloth	FULL			□	□	□	□	□	●		●					

## The difference between Diamond and CBN

**Diamond** is an extremely hard mineral that is typically used for stock removal or shaping applications primarily on non-metallic materials such as tungsten carbide. **Cubic Boron Nitride** is comparable to Diamond, but softer. This grain is superior in terms of oxidation resistance with steel alloys and is ideal for use when grinding steels, cast irons and nickel-based alloys.

## A different appearance for different applications

A **FULL** coating lends itself to a polishing application, whereas a **FIF** (fine island formation) is more ideal for stock removal applications.



SYMBOL KEY	
TS	TOP SIZE (helps reduce friction and heat)
ST	STEARATE (helps prevent loading)
AS	ANTISTATIC
♠	Suitable for Wet Applications
■	Stocked Product
□	Available, Not Stocked
○	For low to medium contact pressure
◎	For medium contact pressure
●	For medium to high contact pressure

Availability is subject to change.

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