

# Precision Processing Tools

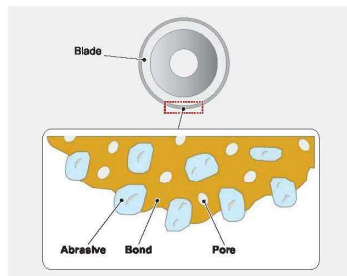
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## Sample

### Three Elements of Abrasive Products

Category: Diamond (General)

The three elements that make up an **abrasive** product: **abrasive**, **bond**, and **pore**.

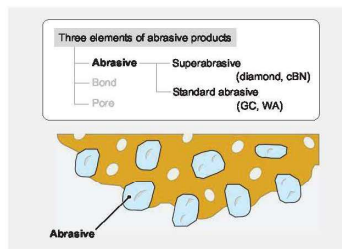


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### Abrasive

Category: Diamond (General)

One of the **three elements of abrasive products**. It is one of the materials that makes up an abrasive product, and its role is to directly process the workpiece. **Diamond** and **cBN** are called **superabrasives**; **GC** and **WA** are called **standard abrasives**.

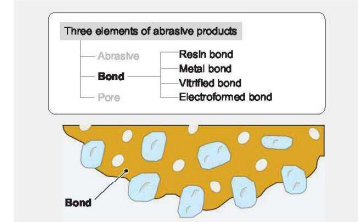


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### Bond

Category: Diamond (General)

One of the **three elements of abrasive products**. The material that secures **abrasives** to manufacture blades and wheels. Bonds are categorized as **resin bond**, **metal bond**, **vitrified bond**, or **electroformed bond**. Workability and processing quality are influenced by the characteristics of the bond.

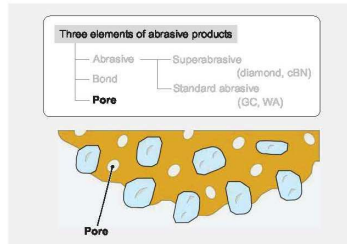


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### Pore

Category: Diamond (General)

One of the **three elements of abrasive products**. Pores are air pockets in the **bond** that binds **abrasives**, such as **diamond** or **cBN**.

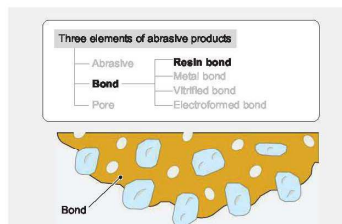


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### Resin Bond Resinoid Bond

Category: Diamond (General)

One type of **bond**. The main component is resin, and it is sometimes mixed with **filler** and cured. Resin bond has the weakest abrasion resistance out of all bond types. It has high elasticity and can reduce damage to the workpiece.

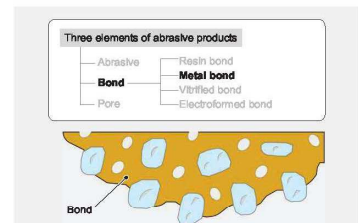


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### Metal Bond

Category: Diamond (General)

One type of **bond**. Multiple types of metallic powders and **diamond** or **cBN** are mixed, and then molded and cured with powder metallurgy. Metal bond has a higher abrasion resistance than **resin bond**.



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