

## Resin Introduction

The high-performance cutting disc is a wheel made of resin, such as phenolic, epoxy, polyurethane, polyvinyl alcohol, etc. Thin abrasive cutting disc for metal with high intensity, can join the strength of fibers and reinforced in 12 inches cut off wheel, such as cutting, grinding, most of our resin standard cut off wheel for metal is not waterproof, cannot use as the cutting in fluid, of course, some need to join in high performance cutting disc fluid resin, such as epoxy resin, resin thin abrasive cutting disc for metal work finish good, not easy to burn workpiece, 12 inches cut off wheel used in cutting, double end face, heavy duty grinding wheel, polishing wheel, etc., the strength of resin bonded grinding wheel was lower than those of ceramic bond and metal bond.

The most commonly used abrasives are brown corundum (A) and white corundum (WA), followed by black silicon carbide (C) and green silicon carbide (GC). The rest are also commonly used in chrome corundum (PA) and single crystal corundum (SA). , microcrystalline corundum (MA), zirconium corundum (ZA)

## Cutting Series Introduction

1. Brown corundum standard cut off wheel for metal: brown, high hardness, high toughness, suitable for grinding high tensile strength metals, such as carbon steel, alloy steel, malleable iron, hard bronze, etc., the abrasive has good grinding performance and adaptability. Wide, often used to cut a large margin of coarse grinding, cheap, can be widely used.

2. White corundum high performance cutting disc: white, the hardness is slightly higher than brown corundum, the toughness is lower than that of brown corundum. When grinding, the abrasive grains are easy to be broken. Therefore, the grinding heat is small, and it is suitable for manufacturing fine-hardened steel and high carbon steel. High-speed steel and grinding wheels for grinding thin-walled parts are more expensive than brown corundum

3. Black silicon carbide thin abrasive cutting disc for metal: black shiny, high hardness than corundum, low toughness, good thermal conductivity, good self-sharpness, sharp edges and corners, suitable for brittle materials with low grinding strength, such as cast iron, bronze, brass, Glass, ceramics, leather, rubber, plastic, gemstones, jade.

4. Green silicon carbide 12 inches cut off wheel: green, hardness second only to boron carbide and diamond, low toughness, sharp edges and angles, good self-sharpening, more expensive, in addition to the same use as black silicon. Mainly used for cutting-edge grinding, thread grinding, gem processing, precious metal, semiconductor grinding.

5. Chrome corundum grinding wheel: rosy or pink, higher toughness than white corundum, similar hardness to that of white corundum, the lower roughness of the surface of grinding workpiece, suitable for a workpiece with the high quality of surface processing such as cutting tools, measuring tools, instruments, and threads.

6. Single crystal corundum grinding wheel: pale yellow or white, with higher hardness and toughness than white corundum. The particles are spherical, good abrasion resistance, strong cutting ability, suitable for grinding stainless steel, high vanadium high-speed steel and other tough, high hardness materials and workpieces prone to deformation burn.

7. Micro-crystal corundum grinding wheel: similar in color to brown corundum, the abrasive grain is composed of many tiny crystals with good toughness and high strength, suitable for grinding stainless steel, bearing steel and special ductile iron, etc.

8. Zirconium corundum grinding wheel: grey and white, high toughness, good abrasion resistance, suitable for grinding the stainless steel, titanium alloy and heat-resistant alloy of the cod body, especially for heavy duty grinding.

## **What We Do**

Henan Aurora Abrasive Co., LTD. is a professional abrasive thin flat cutting disc manufacturer. We produce standard and customized metal cutting disc and grinding disc. We mainly produce various grinding wheels like white corundum grinding wheel, brown corundum grinding wheel, green silicon carbide grinding wheel, resin grinding wheel, sandpaper, ceramic grinding wheel, etc. Our company is located in Zhengzhou, the silicon carbide base, which boasts excellent geographical location and integrated road, railway and air transportation network extending to all directions. We always carry through the cooperation principles "customer first, honesty, quality assurance, creating the brilliancy together".