

(2) Grinding Wheel Specifications: Abrasive Grain Type

Abrasive Grain Type

Abracivo Grain Typo:	
Abrasive Grain Type: Aluminum Oxide	Aluminum oxide is the most common industrial mineral in use today. Fused aluminum oxide is produced sy
Aluminum Oxide	Additional oxide is the most common industrial inneral in use today. Pused additional oxide is produced syn oxide ingots, which are later crushed and sized. Fused aluminum oxide is also produced synthetically by che levels of chemical impurities remaining in the fused mineral. Titanium and chromium oxides are typical additive sol gel process to create alumina that is sintered to produce with an extremely fine crystalline structure typ aluminum oxide is available in several variations depending on composition and processing such as white (hig additions). Titanium oxide additions can toughen the abrasive and enable heat treating process, which change oxide abrasives are also produced with chemical precursors and precipitation, calcination and/or sintering pro applications. Sol-gel aluminum oxide is produced in using chemical ceramic technology, but this abrasive h distinguish the grain from lower performing fused aluminum oxide. Aluminum oxide occurs naturally in the for commercial abrasive except as a component of emery.
Ceramic (e.g., Norton SG®, Norton Quantum®)	Ceramic abrasives typically consist of aluminum oxide with or without additional modifiers produced using a abrasive with an extremely fine crystal size and outstanding grinding performance on a variety of workpiece r grain manufactured by the Saint-Gobain Group. The patented alumina seeding process used in manufactur in superior performance.
Silicon Carbide	Silicon carbide is a synthetic abrasive first developed in the late 1800s. SiC is harder than aluminum oxide, to nonferrous applications (brass, aluminum, titanium). The high solubility of carbon and silicon in iron wo performance. Levels and types of impurities distinguish the green and black forms of silicon carbide. The sha glass, wood, and leather. SiC, like diamond, is susceptible to oxidation at higher temperatures.
Zirconia (e.g., Norzon®)	Alumina-zirconia abrasive grain consists of a fused alloy of aluminum oxide and zirconium oxide. NorZon® i quenched eutectic mixture of aluminum oxide and zirconium oxide. The resulting fine structure and higher to other exotic metals.
Superabrasive - Diamond	Synthetic diamond is produced synthetically in a high temperature, high pressure process anvil press. Diam structure. Diamond is used for grinding nonferrous metals, ceramics, glass, stone, and building materials. Dia dissolves or reacts with iron. Diamond pastes are useful in ferrous polishing or lapping applications where l temperatures
Superabrasive - CBN	Cubic boron nitride (CBN) is superabrasive grain with hardness second to diamond and a cubic crystal struc not useful in grinding steel or ferrous alloys because carbon or diamond readily dissolves or reacts with iron. a process similar to synthetic diamond production.
Tungsten Carbide	Crushed tungsten carbide grit is utilized in metal bonded products for abrasion of tough materials such as c
Other	Other specialty, proprietary or patented abrasive grain, grit or abrasive material.
Metal Clad / Armored?	Abrasive grain with a metal layer or coating. Certain superabrasive products utilize metal clad grain to diss

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