

Monocrystalline (Single Crystal) Alumina



This is a new environmentally friendly blue monocrystalline (single crystal) alumina that conforms to the national industrial policy. Its main raw material is alumina, which produces blue single crystal abrasives, providing super hard resistant and grinding new materials for abrasives and machine tools industry. Single crystal alumina has the advantages of both brown and white fused alumina. It is a single-particle spherical crystal with numerous cutting edge and strong crushing resistance. It is suitable for material grinding of high hardness and toughness, such as stainless steel, high-vanadium steel and high-speed steel, especially for the grinding and processing of easily transformed and burned workpiece.

Typical chemical analysis (Grit 60)

Al ₂ O ₃ (%)	Fe ₂ O ₃ (%)	TiO ₂ (%)	SiO ₂ (%)	Na ₂ O(%)	CaO(%)	MgO(%)	K ₂ O(%)
95.50	0.02	0.27	0.02	0.09	0.05	0.01	0.03

Bulk Density (g/cm³)

Grit	24	30	36	40	46	54	60	70
High limit	1.90	1.90	1.90	1.88	1.88	1.88	1.88	1.88
Low limit	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
Grit	80	90	100	120	150	180	220	
High limit	1.88	1.88	1.75	1.76	1.75	1.75	1.70	
Low limit	1.75	1.75	1.65	1.65	1.65	1.65	1.60	



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