

MONOCRYSTALLINE ALUMINA

Monocrystalline Alumina, also called Single Crystal Aluminum Oxide, is produced in a unique process in which particles of various sizes are formed naturally during production, without the need for mechanical crushing. The grinding wheel made of Single Crystal Aluminum Oxide is light blue color (when fired between 300⁰C and 1280⁰ C) and it has the advantages of extremely high hardness, sharp multi-prism cutting edges, stable bulk density, and excellent grinding performance with relatively low heat- generation.

Typical Chemical analysis in wt.% (F46)

Index	Al ₂ O ₃	Fe ₂ O ₃	SiO ₂	TiO ₂	Na ₂ O
Typical value	99.04	0.04	0.07	0.35	0.14

Physical property:

Basic minerals	Melting Point °C	Refractoriness °C	True density g/cm ³	Vickers hardness Hv (kgf /mm ²)
α-Al ₂ O ₃	≥2250	≥1900	≥3.95	3000-3400

Grits available:

F12 to F220, P16 to P220

#240 to #3000

In accordance with the current GB/FEPA/JIS/ANSI sieve standards.

Other sizes are also available on request.



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