

Single Crystal Alumina

Single Crystal Alumina is easier to form thermal conductivity channel by the line contact and surface contact because heat energy passes directly through single crystal, which has obvious advantages in thermal conductivity.

Our single crystal alumina product has high melting point, good stability, small specific surface area, clean surface, no residual metal impurities and burr, high sphericity, high α phase content, low surface oil absorption value, single crystal transparent, good viscosity reducing effect, excellent thermal conductivity and electrical insulation. It can be used in lithium battery ceramic diaphragm coating, thermal interface materials, thermal conductive engineering plastics, high thermal conductive aluminum coated copper plate, ceramic filter coating, etc.

Specifications:

Item			D3-A08	D4-A1
Phase			α	α
Average Particle Size (by Bettersize Laser 9300SE)		D50, μm	1.0-2.0	1.0-2.0
Loose Density		g/cm^3	0.7-0.8	0.7-0.8
Surface Area		m^2/g	≤ 5	≤ 5
Purity (Al_2O_3) \geq		%	99.9	99.99
Impurity \leq (by ICP-OES)	Na	ppm	600	20
	Ca	ppm	50	3
	Mg	ppm	10	3
	Fe	ppm	40	3
	Si	ppm	50	10
25kg/drum				