

Tabular Alumina

Product Overview

Sintered plate corundum, which is made of alumina as raw material, after grinding, forming and drying, grows into many closely bonded plate-columnar crystalline products under the condition of rapid heating and rapid cooling in the ultra-high temperature vertical kiln. The grain size of alumina corundum is generally 30-200 microns, which contains many closed micro-pores and belongs to high-end alumina corundum with high purity.

The special production process of this product determines its unique performance: high fire resistance, high heat resistance, high scour resistance, high thermal shock resistance, high strength, high toughness and chemical stability. It is an ideal material for refractory, ceramic and electrical insulation. It is also an ideal high-end material for abrasive tools and polishing and grinding industry.

The company can customize the production of 25mm-10um various specifications of plate corundum particles and micro-powder according to the needs of users.

Product Characteristic Index

Grade	Chemical Components %				Bulk Density g/cm ³ (≥)	Apparent Porosity % (≤)	Water Absorption % (≤)
	Al ₂ O ₃ (≥)	SiO ₂ (≤)	Fe ₂ O ₃ (≤)	Na ₂ O (≤)			
A-T-15	99.3	0.1	0.05	0.4	3.50	5.0	1.5

Note: Al₂O₃ % = 100% - SiO₂% - Fe₂O₃% - Na₂O%

Grade	Chemical Components %				Bulk Density g/cm ³ (≥)	Apparent Porosity % (≤)
	Al ₂ O ₃ (≥)	SiO ₂ (≤)	Fe ₂ O ₃ (≤)	Na ₂ O (≤)		
A-TS-0.04 5					/	/
A-TS-0.07 5	99.2	0.1	0.07	0.4	/	/
A-TS-0.1					/	/
A-TS-0.3					/	/
A-TS-0.5	99.3	0.1	0.07	0.4	/	/
A-TS-1					/	/
A-TS-3					/	/
A-TS-5					3.50	5.0
A-TS-6					3.50	5.0
A-TS-10					3.50	5.0
A-TS-15					3.50	5.0

Product Characteristic Index

Grade	Water Absorption % (\leq)	Particle Size (mm)	Solvent Residues % (\leq)	Sub-sieve Residue % (\leq)	D90 μm % (\leq)	Magnetic ppm (\leq)
A-TS-0.04 5	/	0-0.045	/	/	>25-45	200
A-TS-0.07 5	/	0-0.075	/	/	>45-75	200
A-TS-0.1	/	0-0.1	/	/	>75-105	200
A-TS-0.3	/	0.045-0. 3	10	10	/	/
A-TS-0.5	/	0.045-0. 5	10	10	/	/
A-TS-1	/	0.045-1	10	10	/	/
A-TS-3	/	1-3	10	10	/	/
A-TS-5	1.5	3-5	10	10	/	/
A-TS-6	1.5	3-6	10	10	/	/
A-TS-10	1.5	5-10	10	10	/	/
A-TS-15	1.5	10-15	10	10	/	/