TABULAR ALUMINA

Puyang Refractories Group Co., Ltd. (PRCO) high density and high purity tabular Alumina is produced by rapid sintering on calcined alumina without the use of sintering aids at a high temperature close to the melting point of aluminum oxide (approx. 2040°C).

The product has high chemical purity (Tab.1). The corundum crystals are completely developed and tightly bonded (Fig.1), with a certain amount of closed micro pores wrapped inside and between crystals. Therefore, it has excellent chemical stability, high refractoriness, high hardness, good toughness, good thermal shock resistance, and high mechanical strength. It's widely used to produce high-quality refractory materials for multiple industries in metallurgy, foundry, ceramics, petrochemical, and cement.

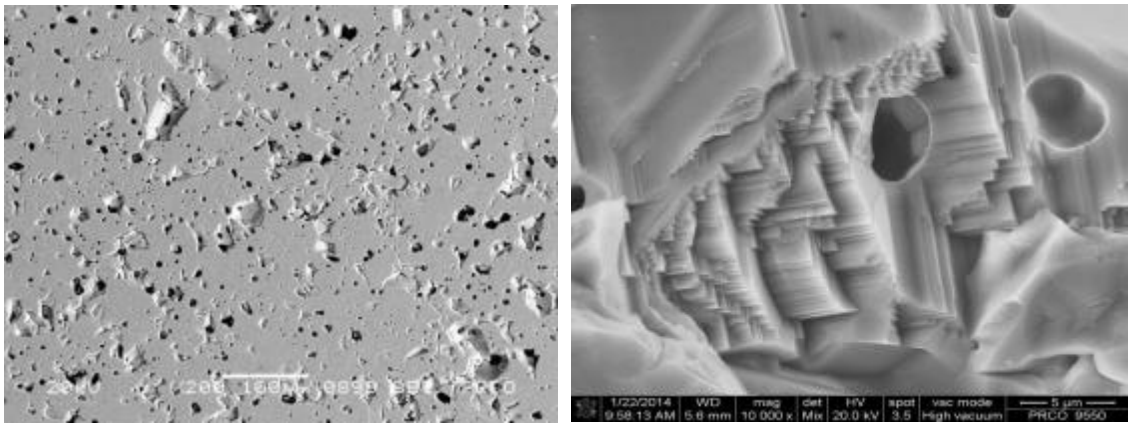

Fig.1 Microstructure of tabular alumina

Items		Granular		Powder	
		Guarantee	Typical	Guarantee	Typical
Chemical analysis, %	Al_2O_3	≥99.30	99.45	≥99.30	99.40
	SiO_2	≤0.12	0.05	≤0.12	0.05
	R_2O	≤0.40	0.29	≤0.40	0.35
	Fe_2O_3	≤0.15	0.05	≤0.15	0.05
	Fe Magnetic	≤0.02	0.01	≤0.02	0.01
Bulk density, g/cm^3		≥3.50	3.55		
Apparent porosity, %		≤5	4.0		
Water absorption，%		≤1.5	1.3		

Tab.1 Physical and chemical properties of tabular alumina

Size fraction: Granular: 6-15mm, 6-10mm, 3-6mm, 1-3mm, 1-2mm, 0-1mm, 0.5-1mm and 0-0.5mm; Powder: 200 mesh (75micron) and 325 mesh (45micron).

Packing: 25kg woven bags / 1000kg jumbo bags / customized.

PRCO AMERICA