

Alumina grinding media



1. Introduction:

With high strength and hardness, excellent wear resistance and corrosion resistance, the products are widely used in ceramic tile, sanitary ware, industrial ceramic, electronic ceramic, advanced refractory, special cement and enamel, non-metallic powder processing, chemical engineering, medicine and paint industries.

2. Characteristics:

- A. High density and hardness, improving markedly grinding efficiency and saving electricity by 30-40%.
- B. Excellent wear resistance which insures high purity of the milled powders.
- C. Reducing the thickness of ball mill, increasing usable cubage and improving mill capacity.

3. Performance index of wear resistance alumina ball and mill linings with middle alumina content:

Al ₂ O ₃ Content	Density g/cm ³	Mohs hardness HRC	Compression strength Mpa	Water absorption %	Color	Wear loss of Alumina balls g/Kg.hr
20-40	2.40-2.50	6.0-6.5	400-600	≤0.02	white	≤1.5
55-60	2.70-2.90	7.0-7.5	700-800	≤0.02	white	≤1.2
70	3.10-3.20	7.5-8.0	1000-1200	≤0.02	white	≤1.0
80	≥3.30	8.0-8.5	≥1450	≤0.01	white	0.7-0.8
92	≥3.60	9.0	≥2000	≤0.01	white	0.4-0.5
95	≥3.70	9.0	≥2100	≤0.01	white	0.4-0.5
99	3.80-3.90	9.0	≥2200	≤0.01	white	0.4-0.5