

Alumina Grinding Media for Cement Mill

CHEMSHUN[®]
CERAMICS



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With the advantages of high density, low cost, excellent abrasion properties, Chemshun alumina grinding ball becomes an ideal grinding media instead of traditional high chromium steel ball for cement mill.

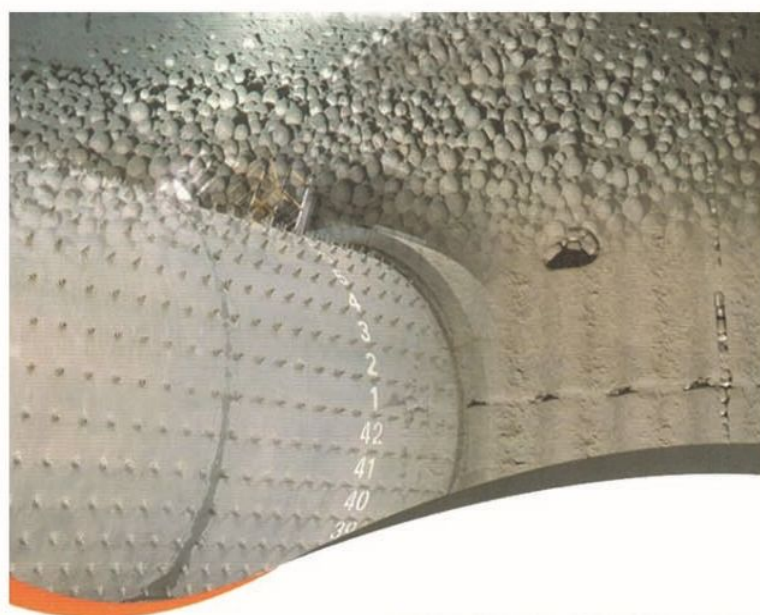


Physical Properties Comparison

Materials	Density	Bulk Weight	Moh's Hardness	Crushing Rate	Abrasion Loss
	g/cm ³	Kg/cm ³	Grade	%	g/Kg.h
High Chromium Steel Ball	7.6-7.8	4500	6.8	<1-3	0.18
Alumina Grinding Media	3.6-3.8	2200-2300	9.0	<1-3	0.09

Technical Datas

Properties	Unit	CHEMSHUN 92	CHEMSHUN 95
Al ₂ O ₃	%	≥92	≥95
SiO ₂	%	≤5	≤4
CaO+ MgO	%	≤2	≤2
Density	g/cm ³	>3.60	>3.70
Bulk Weight	Kg/cm ³	2200	2300
Moh's Hardness	Grade	9	9
Rockwell Hardness	HRA	83-85	85-87
Water Absorption	%	0	0



•Molding by Cold Isostatic Pressing

Diameter(mm)	Φ80	Φ70	Φ60	Φ50	Φ40	Φ30	Φ25
Range	80±3	70±3	63±2	52±2	40±2	32±1.5	26±1.5

•Molding by Rolling

Diameter(mm)	Φ20	Φ17	Φ15	Φ13
Range	20±1	17±1	15±1	13±1

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in English

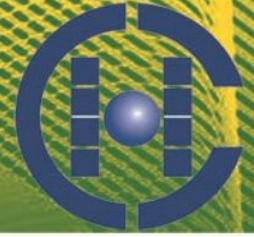


En español

Factory & Office Address: Non-metal Area of Shangliuyuan, Economic Development Zone
Pingxiang City, Jiangxi Province, P.R. China. Code 337000
Tel: 86-799-6790781, 2181002, 2181004 Fax: 86-799-6790785
Website: www.chemshun.com & www.chemshun-es.com Email: office@chemshun.com

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Six Advantages of Alumina Grinding Media Instead of High Chromium Steel Ball for Cement Mill Application.

I. Save power

- Reducing the mill loading 20%;
- Saving power above 15% per ton cement.

II. Improve quality

- Improve the grinding efficiency;
- Improve the performance of cement;
- Rationalize the grains distribution more better;
- Increase 2% of the grain 3-32 μm ;
- Improve the spheroidization efficiency;
- Decrease 1-2% water in same standard consistency;
- Adapt the concrete admixture for cement well .

III. Reduce current

- The current of mill mainframe is reduced by more than 20%.

IV. Cooling and noise reduction

- The temperature could be down more above 20°C;
- Good effect of noise reduction.

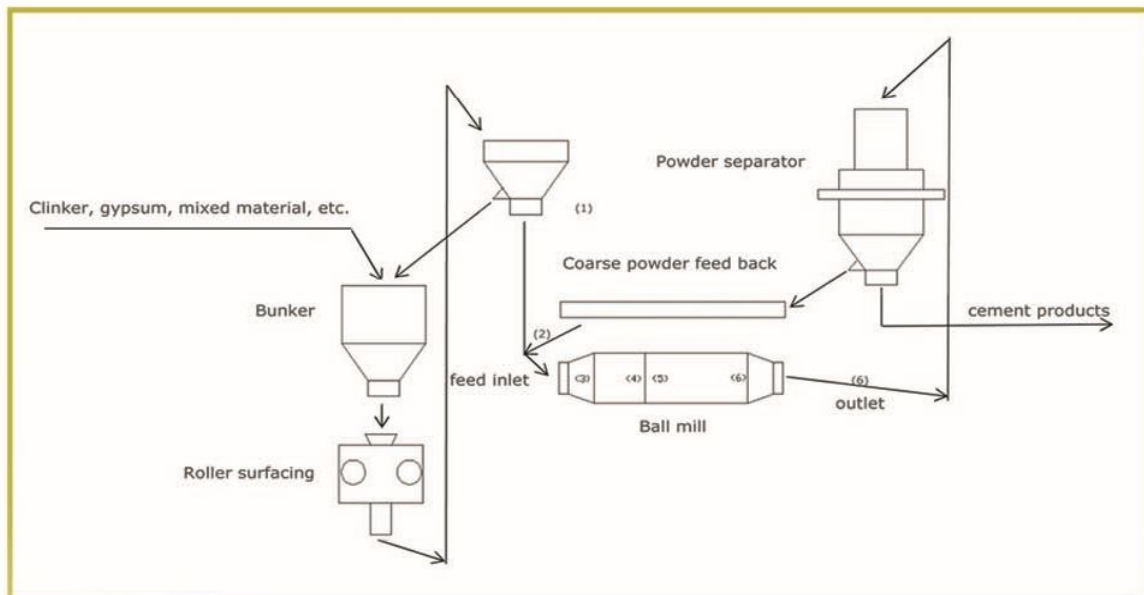
V. Excellent abrasion

- The abrasion loss of Chemshun alumina grinding media for cement mill is about a half of steel ball.

VI. Protect environment

- Using of Chemshun alumina grinding ball could protect environment effectively.

● Process Chart



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Website: www.chemshun.com & www.chemshun-es.com Email: office@chemshun.com