



CHEMSHUN CERAMICS-- Grinding Media Series

◆ Technical data of alumina ceramic balls

	Unit	CHEMSHUN 92A	CHEMSHUN 95	CHEMSHUN 92B
Al ₂ O ₃	%	92	95	92
Density	g/cm ³	3.6	3.65	3.60
Moh's hardness	Scale	9	9	9
Self Abrasion Loss (24Hours, wet grinding)	%	<0.009	<0.01	<0.01
Size Range	Mm	0.5-20	6-30	20-60
Application	-	Zirconia silicate sand and similar products. (wet grinding and dry grinding are available)	Glaze /body material in ceramic factory, pigment, metallurgy, glass, chemicals and other fields etc. (wet grinding only).	





CHEMSHUN CERAMICS-- Grinding Media Series

◆ Technical data of grinding alumina balls specially for mining industry

Item	Unit	Chemshun 92	Chemshun 75	Chemshun ZTA
Al ₂ O ₃	%	92	75	74
ZrO ₂	%	-	-	25
Density	g/cm ³	3.60	3.2	4.0
Color	-	White	white	White
Moh's hardness	Grade	9	8	8
Water absorption	%	0	0	0
Self Abrasion Loss (24Hours, wet grinding)	%	<0.01	<0.02	<0.01
Roundness	%	>95	>95	>95
Dimension	mm	2-20	2-20	2-20

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[In English](#)

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CHEMSHUN CERAMICS-- Grinding Media Series

◆ Technical data of grinding alumina balls specially for cement mill

1. Chemical data.

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

2. 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

3. Molding by Rolling

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





CHEMSHUN CERAMICS-- Grinding Media Series

◆ Technical data of ZrO₂ ceramic (TZP) grinding media

1. Chemical data.

Item	value
ZrO ₂	94.5±0.5%
Y ₂ O ₃	5.2±0.5%
Al ₂ O ₃	<0.3%
Fe ₂ O ₃ , SiO ₂ , Na ₂ O, MgO	<0.2%

2. Physical data

Item	value
Specific gravity (Density)	>6gms/cc
Hardness (Moh's)	9 scale
Color	White
Roundness	93-97%

3. Dimension data

Dimension (mm)	0.1, 0.2, 0.4~0.6, 0.6~0.8, 0.8~1.0, 1.0~1.2, 1.2~1.4, 1.4~1.6, 1.6~1.8, 1.8~2.0, 2.0~2.5, 3, 4, 5, 6, 7, 8, 10, 12, 15, 20, 25, 30, 40
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CHEMSHUN CERAMICS-- Grinding Media Series

◆ Technical data of 80% ZrO₂ ceramic (Z80) grinding media

6. Chemical data.

Item	value
ZrO ₂ + HfO ₂	80%
Y ₂ O ₃ +Al ₂ O ₃	20%

2.Physical data

Item	value
Specific gravity (Density)	>5.3gms/cc
Hardness (Moh's)	≥8 scale
Color	White
Roundness	93-97%

3. Dimension data

Dimension (mm)	0.1, 0.2, 0.4~0.6, 0.6~0.8, 0.8~1.0, 1.0~1.2, 1.2~1.4, 1.4~1.6, 1.6~1.8, 1.8~2.0, 2.0~2.5, 3, 4, 5, 6, 7, 8, 10, 12, 15, 20, 25, 30, 40
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