



CHEMSHUN CERAMICS-- Catalyst Carrier Series

◆ Technical data of inert ceramic balls (Al₂O₃: 90%)

Chemical Composition: (wt%)

Al ₂ O ₃ +SiO ₂	SiO ₂	MgO	K ₂ O+Na ₂ O	CaO	TiO ₂	Leachable Fe ₂ O ₃
>90%	<80%	<1.0%	<4%	<1.5 %	<1.0%	<0.1%

Physical properties:

Items	Proportion	Items	Proportion
Bulk gravity (g/cm ³)	2.2-2.4	Water Absorption (%)	<1
shape	spherical	Moh's hardness (scale)	>=6.5
Heat resistance (°C)	Up to 982	Roundness	<1.25

Geometric properties:

Diameter	Diameter range (mm)	Crushing strength (kg/particle)	Bulk weight (kg/m ³)
1/8"	2-4	>22	1400
1/4"	5 -7	>55	1400
3/8"	10-12	>102	1400
1/2"	12-14	>195	1400
3/4"	17-21	>483	1400
1"	23-27	>690	1380
1 1/4"	29-34	>980	1370
1 1/2"	35-40	>980	1370
2"	48-52	>980	1370

The ceramic balls meet the UOP specification of the inert ceramic balls.

Pingxiang Chemshun Ceramics Co.,Ltd

[In English](#)

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Address: Non-metal area of shangliuyuan, Economic developmentzone, pingxiang city, Jiangxi province, P.R.China.

Website: www.chemshun.com www.chinachemicalpacking.com





CHEMSHUN CERAMICS-- Catalyst Carrier Series

◆ Technical data of inert ceramic balls (Al₂O₃: 23~30%)

Chemical Composition:

Al ₂ O ₃	SiO ₂	MgO	K ₂ O+Na ₂ O	CaO	TiO ₂	Leachable Fe ₂ O ₃
23-30%	62-72%	<1.0%	<4%	<1.5 %	<1.0%	<0.1%

Physical properties:

Items	Proportion	Items	Proportion
Bulk gravity (g/cm ³)	2.2-2.4	Water Absorption (%)	<0.4
Porosity (%)	<2	Moh's hardness (scale)	>=7
Heat resistance (°C)	Up to 1000		

Geometric properties:

Diameter	Diameter range (mm)	Bulk weight (kg/m ³)
1/8"	2-4	1400
1/4"	5 -8	1400
3/8"	10-12	1400
1/2"	12-14	1400
3/4"	17-21	1400
1"	23-27	1380
1 1/4"	29-34	1370
1 1/2"	35-40	1370
2"	48-52	1370

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◆ Technical data of inert ceramic balls (Al₂O₃: 99%)

A. Chemical Analysis:

Items	Proportion	Items	Proportion
Al ₂ O ₃	>99%	SiO ₂	<0.2%
Fe ₂ O ₃	~0.08%	MgO	~0.11%
TiO ₂	~0.03%	CaO	~0.01%
Na ₂ O+ K ₂ O	<0.4%		

B. Physical Analysis:

Items	Proportion	Items	Proportion
Bulk Density(g/cm ³)	3.1-3.6	Moh's hardness (scale)	≈ 7.5
Water Absorption (%)	2.0 - 6.0	Firing loss (wt%)	<0.003

C. The Standard Specification

Diameter (mm)	Diameter range (mm)	Crushing strength (kg/particle)	Bulk density (kg/m ³)
3 (1/8')	3-5	51	1800-2000
6 (1/4')	6-8	102	1800-2000
10 (3/8')	9-11	204	1800-2000
13 (1/2')	12-14	306	1800-2000
16 (5/8')	15-17	714	1800-2000
19 (3/4')	18-21	1020	1750-1950
25 (1')	22-27	1429	1750-1950
30 (1 1/4')	28-32	1429	1750-1950
38 (1 1/2')	33-38	1429	1750-1950
50 (2')	50-55	1837	1750~1950
76 (3')	72-80	2000	1750~1950

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