

Ceramic Support Ball CSB

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Chempack ceramic support ball offers the advantages of high intensity, great chemical stability and thermal stability, excellent resistance to high temperature and pressure, and resists the corrosion from the acid, alkali and other organic solvent. Hence, it widely used as the covering and supporting material and tower packing for catalyst in the reactor. Our ceramic ball can not only increase the distributing spots of gas or liquid, but also protect the activated catalyst from the rushing of the gas and liquid inside the reactor.

Due to their reliable quality and economical prices, our inert alumina ceramic balls are sought after in many fields, such as petroleum, chemical engineering, fertilizer, environmental protection, etc.

Normal Size: 3mm, 6mm, 9mm, 13mm, 19mm, 25mm, 38mm, 50mm.

1. Ceramic Support Ball CSB-17 Chemical Composition

Al ₂ O ₃ +SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	CaO	MgO	K ₂ O+Na ₂ O	Other
>93%	15~22%	<1%	<0.5%	0.5%	<4%	<1%

Physical Properties

Index	Value	
Water absorption, %	<0.5	
Bulk density, MT/m ³	1.38-1.45	
Specific gravity, g/cm ³	2.3-2.4	
Free volume, %	40-44	
Operation temp.(max), °C	982	
Moh's hardness, scale	>6.5	
Acid resistance, %	>99.6	
Alkali resistance, %	>85	
Spalling resistance, °C	427	
Crushing strength	Kg/particle	KN/particle
1/8"(3mm)	>28	>0.28
1/4"(6mm)	>55	>0.54
3/8"(9mm)	>110	>1.08
1/2"(13mm)	>170	>1.67
3/4"(19mm)	>430	>4.21
1"(25mm)	>635	>6.22
1.5"(38mm)	>910	>8.92
2"(50mm)	>1000	<9.8

2. Ceramic Support Ball CSB-23 Chemical Composition

Al ₂ O ₃ +SiO ₂	Al ₂ O ₃	SiO ₂	TiO ₂	Fe ₂ O ₃	CaO	MgO	K ₂ O+N ₂ O
>92%	23~30%	68-73%	<0.5%	<1%	<1.5%	<2.5%	<4%

Physical Properties

Index	Value	
Water absorption, %	<0.5	
Bulk density, MT/m ³	1.35-1.45	
Specific gravity, g/cm ³	2.3-2.45	
Operation temp.(max), °C	982	
Moh's hardness, scale	>7	
Acid resistance, %	>99.6	
Alkali resistance, %	>85	
Spalling resistance, °C	427	
Crushing strength	Kg/particle	KN/particle
1/8"(3mm)	>28	>0.28

1/4"(6mm)	>55	>0.54
3/8"(9mm)	>110	>1.08
1/2"(13mm)	>170	>1.67
3/4"(19mm)	>430	>4.21
1"(25mm)	>634	>6.22
1.5"(38mm)	>910	>8.92
2"(50mm)	>1000	<9.8

Other products like reforming catalyst, isomerization catalyst, hydrotreating catalyst etc. are also available at Chempack. For a complete list of products, please see our product page. In addition, we can customize products according to your special requirements. As our catalysts are manufactured using superior materials and precise equipment, they are high quality and reliable. So, customers can feel secure in their purchase.
For any queries, please contact us. We look forward to working with you.

FEED BACK FORM

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