

Inert Ceramic Balls

Product No.: KPK-ICB



Illustration 1: Inert Ceramic Balls(KPK-ICB)

Inert ceramic balls have the advantages of high strength, high stabilities to chemical and thermal circumstances. It can be resistant to acid, alkali, salt and all organic solvents. Being used as a support and a covering material in oil refinery, chemical, fertilizer, natural gas and environmental protection industries, it can improve the distribution of gas & liquid and, support and protect the activating catalyst from shocking by the rushing fluids.

Features:

- 1) Spheres (balls) or cylinders
- 2) Very excellent support and covering media
- 3) Function as support media for catalyst beds or other chemical beds in reactors or towers
- 4) Very excellent performances and stability in acid and other chemical surroundings
- 5) Very good chemical stability and low rate of water absorption
- 6) Can withstand high pressure and high temperatures
- 7) Can be even used in hot caustic service because they can resist over 10% sodium hydroxide service up to 60°C, and 1% sodium hydroxide service temperature up to 100°C
- 8) Can also resist the chemical corruptions of any acid (including organic and inorganic acids, but except HF acid), most of alkali and organic solvent
- 9) Will increase the distributors of liquid and gas, supporting and protecting the catalyst and avoid poisoned

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Application:

oil refinery, chemical, fertilizer, natural gas and environmental protection industries etc.

Product design:

If our product standard didn't meet your needs, CHEMPACK is glad to work with your company and design it for your specific application.

Technical Specification:

Item	Type	Feldspar	Feldspar-Mullite	Mullite	Mullite-Corundum	Corundum
Chemical composition%	Al ₂ O ₃	20-30	30-45	45-70	70-90	≥90
	Al ₂ O ₃ +SiO ₂	≥90				
	Fe ₂ O ₃	≤1				
Water absorption, %		≤5				
Acid resistance, %		≥98				
Alkali resistance, %		≥80	≥82	≥85	≥90	≥95
Thermal resistance, °C		≥1300	≥1400	≥1500	≥1600	≥1700
Crushing strength, N	Φ 3	≥120	≥140	≥150	≥160	≥200
	Φ 6	≥400	≥420	≥440	≥480	≥500
	Φ 8	≥480	≥520	≥600	≥620	≥650
	Φ10	≥600	≥700	≥800	≥900	≥1000
	Φ13	≥1000	≥1100	≥1300	≥1500	≥1800
	Φ16	≥1500	≥1600	≥1800	≥2300	≥2600
	Φ20	≥1800	≥2000	≥2300	≥2800	≥3200
	Φ25	≥2500	≥2800	≥3200	≥3600	≥4000
	Φ30	≥3000	≥3200	≥3500	≥4000	≥4500
	Φ38	≥4000	≥4500	≥5000	≥5500	≥6000
	Φ50	≥6000	≥6500	≥7000	≥8500	≥10000
Φ75	≥10000	≥11000	≥12000	≥14000	≥15000	
Bulk density, kg/m ³		1300-1400	1400-1500	1500-1600	1600-1800	≥1800

Note: The data of bulk density is given for reference only, not as the acceptance criterion.

Size:

Diameter, Φ	3	6	8	10	13	16	20	25	30	38	50	75
Tolerance, mm	±1.0			±1.5			±2.0			±3.0		

Product Standard:

Chemical Industry Standard HG/T3683.1-2000 Industrial Ceramic Ball – Inert Ceramics ball.

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