

Ceramic ball

Inert Alumina Ceramic Ball (Catalyst Support Media) is widely used in petroleum, chemical, fertilizer, gas and environmental protection industries, as a catalyst in the reactor to cover support material and tower packing. It has the advantages of high temperature high pressure resistance, low water absorption and stable chemical performance, can withstand the erosion of acid, alkali and other organic solvents, and can endure in the production process of temperature changes. Its main role is to increase the distribution of liquid or gas, support and protect the activated catalyst with low strength.



Ceramic ball

Technical Parameter

Item	Ceramic Ball	Inert Alumina Ceramic Ball	Medium-Alumina Ceramic Ball	High-Alumina Ceramic Ball	99-Alumina Ceramic Ball
Al ₂ O ₃ +SiO ₂ (%)	>93	>92	>93	>94	>99
Al ₂ O ₃ (%)	17	17-23	30-50	90-92	99
Fe ₂ O ₃ (%)	<1	<1	<1	<1	<1
CaO (%)	<0.5	<1.5	<2	<4	0.1
MgO (%)	<0.5	<2.5	<0.5	<0.5	0.1
K ₂ O+Na ₂ O (%)	<4	<4	<3.5	<4	>0.5
TiO ₂	>0.5	>0.5	<0.1	<0.1	0.03
Leachable Fe ₂ O ₃	<0.1	<0.1	<0.005	<0.005	0
Water Absorption	<0.5	<0.5	<1	<2	2.0-5.0
Bulk Density	1.35-1.40	1.35-1.45	1.35-1.65	1.8-2.0	1.8-2.0
Operation Temp	>1100	>1100	1500	1550	1580
Moh's Hardness	>6.5	>7	>7	>7.5	>7.5
Crush Strength	KN/particle				
1/4 inch (6mm)	>0.5	>0.54	>0.56	>0.44	>1
1/2 inch (13mm)	>1.5	>1.67	>1.56	>1.99	>3
3/4 inch (19mm)	>4.15	>4.21	>2.89	>3.21	>5
1 inch (25mm)	>6.07	>6.22	>4.89	>5.33	>8
1-1/2 inch(38mm)	>8.52	>8.92	>5.33	>5.28	>8
2 inch (50mm)	>9.7	>9.8	>6.22	>8	>15

Product Size tolerance

Sizes(mm)	3 6 8 10	13 16 20 25	30 38 50	65 75
plus-minus tolerance	±1.0	±1.5	±2.0	±3.0

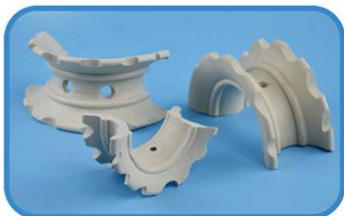
Ceramic Random Packing

Ceramic random packing has excellent acid resistance and heat resistance, can resist corrosion of various inorganic acids, organic acids and organic solvents except hydrofluoric acid, and can be used in high or low temperature environment, thus its application ranges is very wide. Ceramic random packing can be used in the drying columns, absorbing columns, cooling towers, scrubbing towers in chemical industry, metallurgy industry, coal gas industry, oxygen producing industry, etc.



Ceramic Intalox Saddle

Sizes (Inch/mm)	Thickness (mm)	Surface area (m ² /m ³)	Free volume (%)	Bulk Density (Kg/m ³)	Dry packing Factor (m-1)
1/2" (13)	2-3	650	68	850	420
3/4" (19)	2.5-3.5	350	75	750	350
1" (25)	3-4	250	74	700	320
3/2" (38)	4-5	164	78	650	170
2" (50)	5-6	120	77	600	130
3" (76)	8-10	95	77	550	127



Ceramic Super Intalox Saddle

Sizes (Inch/mm)	Thickness (mm)	Surface area (m ² /m ³)	Free volume (%)	Bulk Numbers (per/m ³)	Bulk density (kg/m ³)
1" (25)	3-3.5	160	78	53000	650
1.5" (38)	4-5	102	80	16000	600
2" (50)	5-6	88	80	7300	580
3" (76)	8.5-9.5	58	82	1800	550



Ceramic Pall Ring

Sizes (Inch/mm)	Thickness (mm)	Surface area (m ² /m ³)	Free volume (%)	Bulk Numbers (per/m ³)	Bulk density (kg/m ³)
1" (25)	3	210	73	53500	700
1.5" (38)	4	180	75	15000	650
2" (50)	5	130	78	6800	600
3.2" (80)	8	110	81	1950	550

Plastic Random packing

Plastic Random packing is made of heat resistant and chemical corrosion resistant plastics, including PP,RPP,PVC,CPVC,HDPE, PVDF,PTFE,PFA,ETFE,ABS. It has features such as large void space, low pressure drop, low mass-transfer unit height, high flooding point, uniform gas-liquid contact, small specific gravity, high mass transfer efficiency, is widely used in petroleum and chemical, alkali chloride, gas and environmental protection industries.



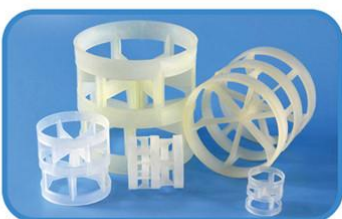
Plastic Intalox Saddle

Sizes (Inch)	Dimension (mm)	Surface area (m ² /m ³)	Free volume (%)	Bulk Numbers (per/m ³)	Bulk Density (Kg/m ³)	Dry packing Factor (m-1)
1"	25×12.5×1.2	288	85	97680	102	473
1.5"	38×19×1.2	265	95	25200	63	405
2"	50×25×1.5	250	96	9400	75	323
3"	76×38×2	200	97	3700	60	289



Plastic Super Intalox Saddle

Sizes (Inch)	Dimension (mm)	Surface area (m ² /m ³)	Free volume (%)	Bulk Numbers (per/m ³)	Bulk density (kg/m ³)	Dry packing Factor (m-1)
1"	25×12.5×1.2	260	90	51200	92	390
1.5"	38×19×1.2	178	96	25200	75	201
2"	50×25×1.5	168	97	6300	76	184
3"	76×38×2.6	130	98	3700	64	138



Plastic pall ring

Sizes (Inch)	Dimension (mm)	Surface area (m ² /m ³)	Free volume (%)	Bulk Numbers (per/m ³)	Bulk density (kg/m ³)	Dry packing Factor (m-1)
3/5"	16*16*1	320	88	214000	108	376
1"	25*25*1.2	213	90	53500	68	285
1.5"	38*38*1.4	151	91	15800	60	220
2"	50*50*1.5	100	91.5	6500	44.5	127
3"	76*76*2.6	73.2	92	1930	48	94



Plastic Heilex Ring

Sizes (Inch/mm)	Surface area (m ² /m ³)	Free volume (%)	Bulk Numbers (per/m ³)	Bulk Density (Kg/m ³)	Dry packing Factor (m-1)
2" (50)	107	94	8000	50	128
3" (76)	75	95	3420	45	87
4" (100)	55	96	1850	48	62