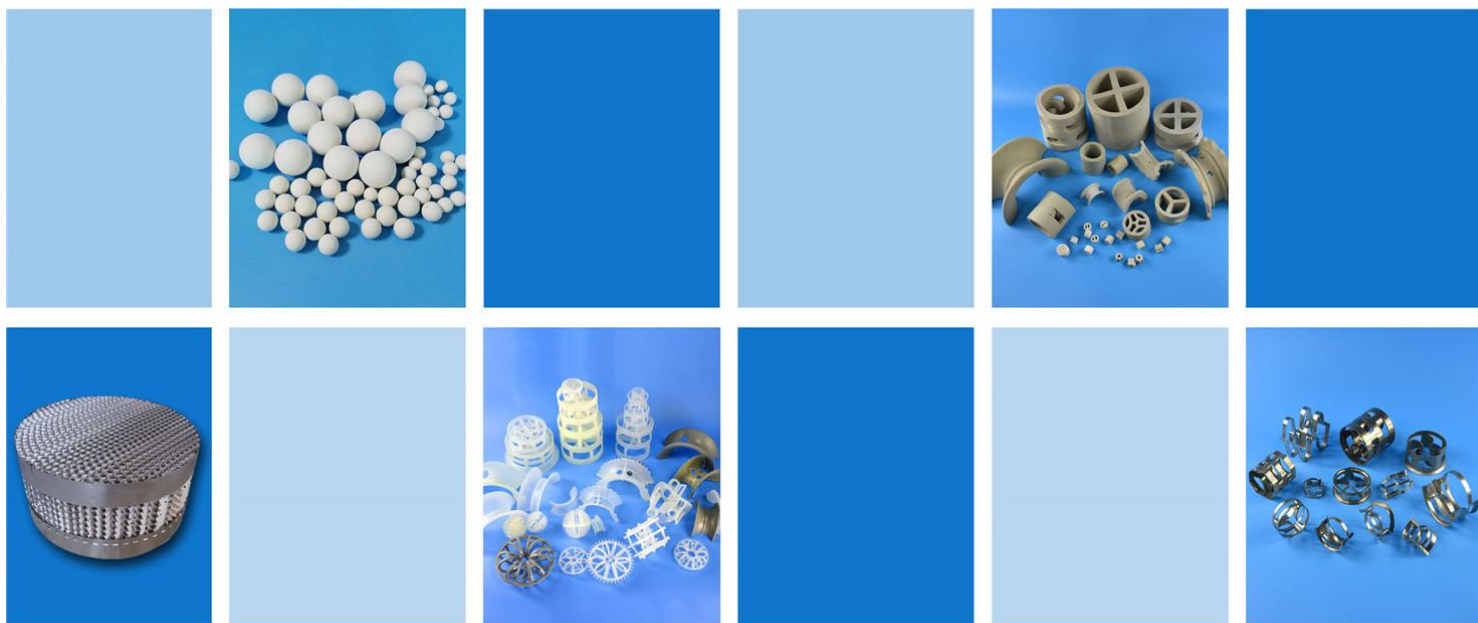




凯莱·化工



KELLEY

JIANGXI KELLEY CHEMICAL PACKING CO.,LTD

» JIANGXI . CHINA



Kelley Chemical Packing Quality Assurance



ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ

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Quality First Customer Foremost

ENTERPRISE PROFILE

Locates in China's largest industrial ceramics production base, tower packing professional area, Pingxiang City in Jiangxi province, China, Kelley is a global trade company offering tower packing products and chemical / industrial ceramics for performance-critical applications. Our brand / quality / services add value and enhance competitiveness of our customers.

Jiangxi Kelley Chemical Packing Co., Ltd was established in 2009. The company was born from a family workshop, which was first set up in 1988, by the hand of Mr. Peng, a Chinese tower packings pioneer, who earned professional knowledge and experience in the market over a period of about thirty years. We are proud of our advanced production lines of ceramic / plastic / metal packings, ceramic balls and filters. By far, there are more than 200 employees directly or indirectly related with Kelley.

In a position to offer "ONE-STOP" industrial products services, Kelley owned stakes of ceramic honeycomb plant, and became as a distributor of high alumina products and molecular sieves. With the diversity of products and professional spirit, we are able to satisfy various and specific needs for our clients.

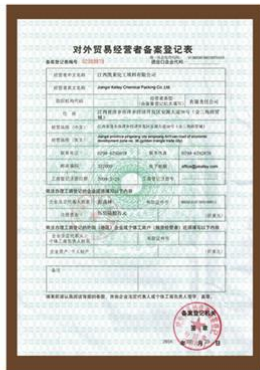
Kelley is the ISO9001:2008 certified company, quality is the first consideration. Our company has a distinguished and experienced team of experts & engineers to provide our customers the up-to-date products & technologies at most competitive price. Our customer service dept. provides fast & good services to our customers, for Kelley considers the services as one of the important competitive factor.

To Survive By Quality To Develop By Technology Seek Benefit By Service Create Brand By Good Faith



Quality First Customer Foremost

QUALIFICATION HONOR



ABOUT KELLEY



..... KELLEY' s Office



..... Sintering Kiln



..... Steel stamping plant



..... Pelleting plant



.....Molecular sieve sintering kiln plant



..... Molecular sieve Production Plant



..... Injection molding machine



.....Plastic tower packing production plant



..... Raw material plant



.....Chemical laboratory



..... Strength inspection equipment



.....Activated alumina inspection equipment

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



Porous Ceramic Ball

Item	Feldspar	Feldspar- Mullite	Mullite Stone	Mullite- Corundum	Corundum
Al ₂ O ₃ (%)	20-30	30-45	45-70	70-90	≥90
Water Adsorption (%)	≤5	≤5	≤5	≤5	≤5
Acid Resistance (%)	≥98	≥98	≥98	≥98	≥98
Alkali Resistance (%)	≥80	≥82	≥85	≥90	≥95
max(°C) Operation Temp	≥1300	≥1400	≥1500	≥1600	≥1700
(kg/m ³) Bulk Density	1100-1200	1200-1300	1300-1400	1400-1500	≥1500



Refractory Ceramic Ball

Item	Units	Data
Al ₂ O ₃	%	≥65
Fe ₂ O ₃	%	≤1.6
Pore Volume	%	≤24
Compressive strength	kg/cm ²	≥ 900
Refractoriness	°C	≥1800
Bulk Density	kg/m ³	≥1386
Specific Gravity	kg/m ³	≥2350
Refractoriness °C under load of 2kg/cm ²	°C	≥1500
LOI	%	≤0.1



Thermal Storage Ball

Item		APG Heat Storage Ball	Heating Furnace Storage Ball
(%)	Al ₂ O ₃	20-30	60-65
	Al ₂ O ₃ +SO ₂	≥90	≥90
	Fe ₂ O ₃	≤1	≤1.5
Size (mm)		10-20/12-14	16-18/20-25
Thermal capacity (J/kg.k)		≥836	≥1000
(w/m.k) Thermal Conductivity		2.6-2.9	
(°C) High blast temperature		800	1000
Refractoriness (°C)		1550	1750
Wear rate (%)		≤0.1	≤0.1
Moh's Hardness (Scal)		≥6.5	≥6.5
Compressive strength (N)		800-1200	1800-3200
Bulk Density (kg/m ³)		1300-1400	1500-1600

Ceramic Randon 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



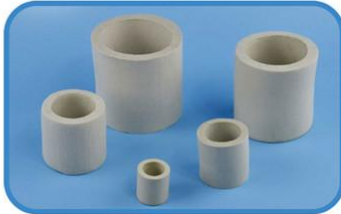
Ceramic Super Intalox Saddle

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



Ceramic Raschig Ring

Sizes (Inch/mm)	Thickness (mm)	Surface area (m ² /m ³)	Free volume (%)	Bulk Numbers (per/m ³)	Bulk density (kg/m ³)	Dry packing Factor (m-1)
1/4" (6)	1.6	712	62	3022935	1050	5249
1/2" (13)	2.4	367	64	377867	800	1903
5/8" (16)	2.5	305	73	192500	800	900
3/4" (19)	2.8	243	72	109122	750	837
1" (25)	3.0	190	74	52000	650	508
1.5" (38)	5.0	121	73	13667	650	312
1.6" (40)	5.0	126	75	12700	650	350
2" (50)	6.0	92	74	5792	600	213
3.2" (80)	9.5	46	80	1953	660	280
4" (100)	10	70	70	1000	600	172



Ceramic Cross 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)	3.5	220	52	50000	850
2" (50)	5.5	150	53	6400	800
3.2" (80)	8	120	54	1960	916
4" (100)	10	110	53	1000	930
6" (150)	15	60	58	296	960



Ceramic Mini Lessing Ring

Sizes (Inch/mm)	OD*ID*H*T (mm)	Bulk density (kg/m ³)	Bulk Numbers (per/m ³)	Surface area (m ² /m ³)	Dry packing factor (m-1)
3/8" (10)	10*6*8*2	800	750000	420	1250
2" (50)	50*40*50*5	600	6500	145	565
3.2" (80)	80*64*80*8	820	1950	120	356
4" (100)	100*80*100*10	850	1000	110	252
5" (120)	120*96*120*12	860	370	75	146
6" (150)	150*120*150*15	980	296	60	101




Ceramic Cascade Mini Ring

Sizes (Inch/mm)	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)	25×15×3	210	73	72000	650	540
1.5" (38)	38×23×4	153	74	21600	630	378
2" (50)	50×30×5	102	76	9100	580	232
3" (76)	76×46×9	75	78	2500	530	158


Ceramic Y Type Partition Ring

Sizes (Inch/mm)	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)	25*13*2	240	74	87000	760	390
1.5" (38)	38*20*3	160	75	27600	740	260
2" (50)	50*30*4	138	75	10100	745	233
3.2" (80)	80*50*9	90	70	1910	710	262


Ceramic Berl Ring

Sizes (Inch)	Dimension (mm)	Surface area (m ² /m ³)	Free volume (%)	Bulk Numbers (per/m ³)	Bulk density (kg/m ³)
3/8"	10	250	50	105000	950
3/5"	15	225	58	83950	725
1"	25	206	61	43250	640
1.5"	38	110	72	12775	620
2"	50	95	72	7900	650


Carbon / Graphite Raschig Ring

Sizes (Inch/mm)	D*H*T (mm)	Bulk density (kg/m ³)	Bulk Numbers (per/m ³)	Surface area (m ² /m ³)	Void Volume (%)
3/4" (19)	19×19×3	650	109122	220	73
1" (25)	25×25×4.5	680	47675	160	70
1.5" (38)	38×38×6	640	13700	115	69
1.6" (40)	40×40×6	600	12700	107	68
2" (50)	50×50×6	580	6000	100	74
3.2" (80)	80×80×8	/	1910	60	75
4" (100)	100×100×10	/	1000	55	78

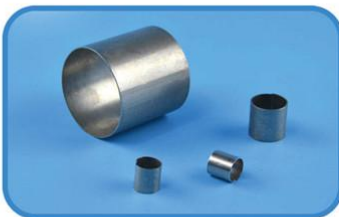
Metal Random Packing

Metal Random Packing are widely used in packing towers in petrochemical industry, chemical fertilizer industry and environmental protection, etc. Metal Pall Ring will have a variety of materials, such as carbon steel, stainless steel 304, 304 L, 410, 316, 316 L, etc.



Metal 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)
1/4"	6*6*0.3	904	88.6	4000000	900	1307.4
3/8"	10*10*0.3	482	93.8	768000	480	583.8
1/2"	13*13*0.3	415	94.8	410000	420	489.2
5/8"	16*16*0.3	344	95.5	201000	348	393.2
1"	25*25*0.4	212	96.2	53500	288	229.8
1.5"	38*38*0.5	145	96.7	15180	246	151.7
2"	50*50*0.5	106	97.5	6500	185	128.5
3"	76*76*1.0	69	97.4	1920	265	79.6
3.5"	89*89*1.0	61	97.1	1220	224	66.2



Metal Raschig 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)
1/4"	6*6*0.3	904	88.6	4000000	900	1307.4
3/8"	10*10*0.3	482	93.8	768000	480	583.8
1/2"	13*13*0.3	415	94.8	410000	420	489.2
5/8"	16*16*0.3	344	95.5	201000	348	393.2
1"	25*25*0.4	212	96.2	53500	288	229.8
1.5"	38*38*0.5	145	96.7	15180	246	151.7
2"	50*50*0.5	106	97.5	6500	191	115.2
3"	76*76*1.0	69	97.4	1920	265	79.6
3.5"	89*89*1.0	61	97.1	1220	224	66.2



Metal cascade-mini rings with ONE bevel edge

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)
1" (25)	220	96.5	97160	459	273.54
1.5" (38)	154.3	95.9	31800	433	185.8
2" (50)	109.2	96.1	12300	323.9	127.4
3" (76)	73.5	97.6	3540	385	81



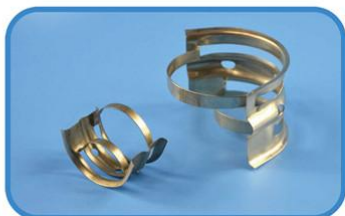
Metal cascade-mini rings with TWO bevel edges

Sizes	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)
0P	17*15*6*0.3	427	94	530,000	472	55
1P	25*22*8*0.3	230	96	150,000	270	40
1.5P	34*29*11*0.3	198	97	60,910	201	29
2P	43*38*14*0.4	164	97	29,520	230	22
2.5P	51*44*17*0.4	127	97	17,900	186	17
3P	66*57*21*0.4	105	98	8,800	139	14
4P	86*76*29*0.4	90	98	5,000	143	10
5P	131*118*41*0.6	65	98	1,480	136	7



Metal Intalox Saddle IMTP

Sizes (Inch/mm)	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)
5/8" (15)	16.5*10.6*0.3	275	96.7	324110	263	304.9
1" (25)	25.9*12.6*0.4	199	96.6	127180	266	221.0
1.5" (40)	35.4*18.8*0.4	151	97.4	51180	203	163.2
2" (50)	48.5*28.6*0.5	97	97.9	15550	169	103.9
2.4" (60)	67*37*0.5	84	98.2	9000	145	88.4
2.8" (70)	76.5*42.5*0.5	61	98.7	4690	106	63.5



Metal Nutter Ring

Sizes (Inch/mm)	Thickness (mm)	Surface area (m ² /m ³)	Free volume (%)	Bulk Numbers (per/m ³)	Bulk density (kg/m ³)	Dry packing Factor (m-1)
0.7" (18)	0.2	230	97.9	167374	165	244.7
1" (25)	0.3	143	98.1	60870	149	151.5
1.5" (38)	0.4	110	98.0	24740	158	116.5
2" (50)	0.4	89	98.4	13600	129	93.7
2.5" (65)	0.4	78	98.6	9310	114	81.6
3" (76)	0.5	59.6	98.6	3940	111	61.9



Metal VSP 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)
1"	25*0.3	196	97.3	52500	209	212.2
1.5"	38*0.4	134	97.5	15500	198	144.9
2"	50*0.5	102	97.6	6850	192	110.1
3"	76*0.8	67	97.4	1950	206	72.9



Metal super mini ring
Metal Flat Ring

Sizes (Inch/mm)	Dimension (mm)	Surface area (m ² /m ³)	Free volume (%)	Bulk Numbers (per/m ³)	Bulk density (304,kg/m ³)	Dry packing Factor (m-1)
0.5" (13)	16.5*5.5*0.3	330	95.8	600000	333	375.6
1" (25)	25*9*0.3	219	95.5	155000	221	238.5
1.5" (38)	38*12.7*0.6	145	98.1	48000	316	156.9
2" (50)	50*17*0.8	115	97.9	21500	334	130.7
3" (76)	76*25*1.0	69	98.2	5800	256	76.5



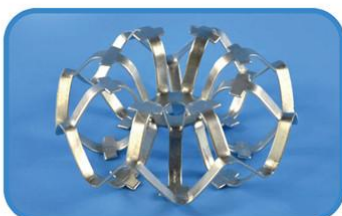
Metal Super Raschig Ring

Sizes (Inch/mm)	Surface area (m ² /m ³)	Free volume (%)	Bulk Number (per/m ³)	Bulk density (kg/m ³)	Dry Packing Factor (m-1)
0.3" (8)	315	97.1	180000	230	343.9
0.5" (13)	250	96.5	145000	275	278
0.6" (16)	215	96.1	145000	310	393.2
0.7" (18)	180	97.0	45500	240	242.2
1" (25)	150	97.2	32000	220	163.3
1.5" (38)	120	97.8	13100	170	128.0
2" (50)	100	97.9	9500	165	106.5
3" (76)	80	98.1	4300	150	84.7
3.5" (89)	67	98.1	3600	150	71.0



Metal Conjugated Ring

Sizes (Inch/mm)	Surface area (m ² /m ³)	Free volume (%)	Bulk Number (per/m ³)	Bulk density (kg/m ³)	Dry Packing Factor (m-1)
5/8" (16*16*0.4)	313	97	211250	354	324
1" (25*25*0.5)	185	95	75000	216	216
1.5" (38*38*0.8)	116	96	19500	131	131
2" (50*50*0.8)	86	96	9772	97	97
3.2" (80*80*0.8)	81	95	3980	94.5	95



Metal Tellerette Ring

Sizes		Surface area (m ² /m ³)	Free volume (%)	Bulk Number (per/m ³)
(Inch)	(mm)			
2"	50*25*0.8	112.8	96.2	19180
3"	75*75*1.0	64.1	97.3	5460
4"	100*45*1.2	53.4	97.3	2520

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



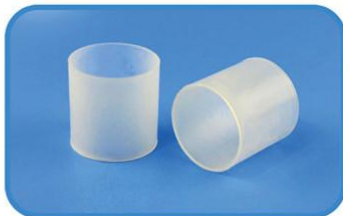
Plastic pall ring

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



Plastic Rachig 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)
5/8" (16)	260	91	241000	94	490
1" (25)	205	90	50000	112	400
1.5" (38)	130	89	19000	70	305
2" (50)	93	90	6500	68	177
3.2" (80)	90	95	1820	66	130



Plastic Rosette Ring
Plastic Teller Rosette 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)
1" 25*9*(1.5*2) (5 ring)	269	82	170000	85	488
1.15" 47*19*(3*3) (9 ring)	185	88	32500	58	271
2" 51*19*(3*3) (9 ring)	180	89	25000	57	255
2.3" 59*19*(3*3) (12 ring)	127	89	17500	48	213
2.9" 73*27.5*(3*4) (12 ring)	94	90	8000	50	180
3.7" 95*37*(3*6) (18 ring)	98	92	3900	52	129
5.7" 145*37*(3*6) (20 ring)	65	95	1100	46	76



Plastic Tri-Pak

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)
1" (25)	85	90	81200	81	28
1.5" (38)	70	92	25000	70	25
2" (50)	48	93	11500	62	16
3.5" (95)	38	95	1800	45	12



Plastic Polyhedral Hollow Ball

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)
1" (25)	460	90	64000	64	776
1.5" (38)	325	91	25000	72.5	494
2" (50)	237	91	11500	52	324
3" (76)	214	92	3000	75	193
4" (100)	330	92	1500	56	155



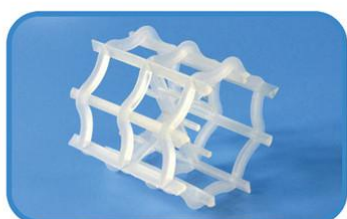
Plastic Hollow Floating Ball

Sizes (Inch/mm)	Average weight (g)	Number (pet ft ²)	Number (pet m ²)
3/8" (10)	0.2	1076	11600
3/4" (20)	1.0	270	2900
1" (25)	1.5	172	1850
1.5" (38)	4.5	74	800
1.78" (45)	7.0	53	570
2" (50)	8.0	43	465
2.2" (55)	10.5	35	380
2.75" (70)	16.0	22	235
4" (100)	40	10	116
6" (150)	100	5	55



Plastic Beta Ring

Sizes (Inch/mm)	Free volume (%)	Bulk Density (Kg/m ³)
1" (25)	94	53kg/m ³ (3.3lb/ft ³)
2" (50)	94	54kg/m ³ (3.4lb/ft ³)
3" (76)	96	38kg/m ³ (2.4lb/ft ³)



Plastic VSP Ring

Sizes (Inch/mm)		Surface area (m ² /m ³)	Free volume (%)	Bulk Numbers (per/m ³)	Bulk Density (Kg/m ³)
1"	25	185	93	55000	60
1.5"	38	138	94	16000	58
2"	50	121	95	5500	45
3.5"	90	40	97	1100	30



Plastic Ralu Ring

Sizes (Inch/mm)		Surface area (m ² /m ³)	Free volume (%)	Bulk Numbers (per/m ³)	Bulk Density (Kg/m ³)
3/5"	15	320	94	170000	80
1"	25	190	88	36000	46.8
1.5"	38	150	95	13500	65
2"	50	110	95	6300	53.5
3.5"	90	75	90	1000	40
5"	125	60	97	800	30



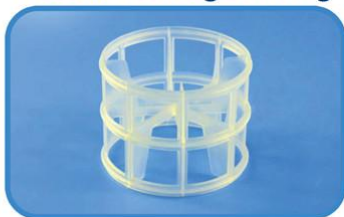
Plastic Cascade Mini Ring

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)
1/2"	16*8.9*1	370	85	299136	135.6	602.6
1"	25*12.5*1.2	228	90	81500	65	312.8
1.5"	38*19*1.2	132.5	91	27200	54	175.8
2"	50*25*1.5	114.2	92.7	10740	43	143.1
3"	76*37*2.6	90	92.9	3420	44	112.3



Plastic Pentagon 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)
1.5"	38*12*1.2	246	95	46000	112	260.3
2"	50*17*1.5	218	97	21500	107	225.2
3"	76*26*2.5	198	96	6500	92	207.1



Plastic Hiflow Ring

Sizes (Inch/mm)		Surface area (m ² /m ³)	Free volume (%)	Bulk Density (Kg/m ³)
1/2"		16	260	91
1"		25	210	92
1.5"		38	140	94
2"		50	100	94
3.5"		90	73	96



Plastic Super Raschig Ring

Sizes (Inch/mm)		Surface area (m ² /m ³)	Free volume (%)	Packing Numbers (pcs/m ³)
2"	D55*H55*T4.0 (2.5-3.0)	126	78	5000



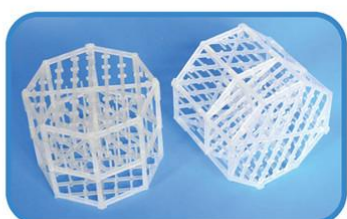
Plastic Flat Ring

Sizes (Inch/mm)		Surface area (m ² /m ³)	Free volume (%)	Bulk Numbers (per/m ³)	Dry Packing Factor (m-1)
1"	25*9*1.0	160	88	170000	287
1.5"	38*13*1.2	145	92	460000	175
2"	50*17*1.5	128	93	21500	140
3"	76*26*2.5	116	93	6500	112



Plastic snowflake 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)	
3.5"	90	138	97	5000	45	142



Plastic Q-pack

Sizes (Inch/mm)	Drip several	Free volume (%)	Bulk Numbers (per/m ³)	Bulk Density (Kg/m ³)	Dry packing Factor (m-1)
3.5" (82.5*95)	388	96.3	1165	33.7	23



Plastic MBBR Bio Film Carrier

Sizes (Inch/mm)	Density (g/cm ³)	Surface area (m ² /m ³)	Bulk Density (Kg/m ³)	Free volume (%)	Fill rates (%)
0.4" (10×8)	0.96± 0.02	> 820	150	85	15~60
0.7" (18×10)	0.96± 0.02	> 600	120	88	20~60
1" (25×10)	0.96± 0.02	> 500	100	90	20~65



Plastic Igel ball

Sizes (Inch/mm)	Surface area (m ² /m ³)	Free volume (%)	Bulk Density (Kg/m ³)	Dry Packing Factor (m-1)
1.6" (40)	300	87	102	473



Plastic Conjugated 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)	
1"	25×25×1.0	185	95	74000	96	216
1.5"	37×37×1.5	142	91	16320	57.7	168
2"	50×40×1.5	104	80	9500	52	164
3"	76×76×2.6	81	95	3980	64.8	94
4"	100×100×2.0	55	96	1850	48	62



Plastic Lanpac

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)
3.5"	90	144	92.5	1765	67	46
2.3"	60	222	89	7060	99	69



PTFE Pall Ring

Sizes (Inch/mm)	Surface area (m ² /m ³)	Free volume (%)	Packing Number (per/m ³)	Bulk Density (Kg/m ³)
0.8" (20*20*2)	267	92.8	125000	550
1" (25*25*2)	219	93.4	60000	450
1.5" (38*38*2.5)	165	94.6	15800	420
2" (50*50*4)	108	94.5	6800	450
2.6" (65*65*5)	84	94.8	4600	500
3" (76*76*4)	73	92	2000	300



PTFE Raschig Ring

Sizes (Inch/mm)	Surface area (m ² /m ³)	Free volume (%)	Packing Number (per/m ³)	Bulk Density (Kg/m ³)
0.8" (20*20*2)	267	92.8	125000	550
1" (25*25*2)	219	93.4	60000	450
1.5" (38*38*2.5)	165	94.6	15800	420
2" (50*50*4)	108	94.5	6800	450
2.6" (65*65*5)	84	94.8	4600	500
3" (76*76*4)	73	92	2000	300



Plastic Liquid-covering Ring

Name	Sizes (Inch/mm)	Density (G/m ³)	Anti- pressure (Mpa)	Pcs Density (n/m ²)	Free volume (%)	Covering rate (%)	PH Value
Covering ball	1.6" (40)	0.5	≤0.4	720	95	91	1-1.4
Covering ball	2" (50)	0.5	≤0.4	500	95	91	1-1.4
With edge covering ball	1.6" (40)	0.3	≤0.4	666	93	97	1-1.4
With edge covering ball	3.15" (80)	0.5	≤0.4	232	95	99	1-1.4
Liquid-covering ball	1.6" (40)	0.3	≤0.4	666	93	97	1-1.4
Liquid-covering ball	3.15" (80)	0.5	≤0.4	232	95	99	1-1.4
V type covering ball	2" (50)	0.3	≤0.4	500	95	91	1-1.4

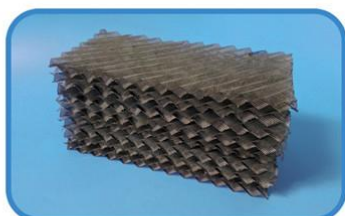
Structured Packing

Structured Packing because of uniform and symmetric, stipulated flow path, It has been widely used in the field of fine chemicals, petrochemicals, fertilizer. It has some advantages such as compression, big flux, high separation efficiency and so on.



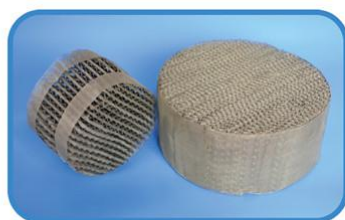
Metal Corrugated Plate Packing

Model	Surface area (m ² /m ³)	Free volume (%)	Hydraulic diameter (mm)	Theoretical plate (piece/m)	Pressure drop (Mpa/m)	F-Factor (m-1)
125Y	125	98.5	18	1-1.2	1.5	3
250Y	250	97	15.8	2-3	1.5-2	2.6
350Y	350	95	12	3.5-4	1.5	2
450Y	450	93	9	3-4	1.8	1.5
500Y	500	92	8	3-4	1.9	1.4



Metal Mesh Corrugated Packing

Model	Free volume (%)	Piece thick (mm)	Bulk Density (kg/m ³)	Waved height (mm)	Waved distance (mm)	Gear-shape angle (φ)	F-factor (m-1)	Theoretical plate (piece/m)
450Y	76	1 +/- 0.2	600	6	11	80	1.5-2	4-5
350Y	80	1.2 +/- 0.2	580	9	15	80	2	3.5-4
250Y	82	1.4 +/- 0.2	530	13	22	80	2.5	2-3
160Y	84	2.2 +/- 0.2	500	17	30	80	2.8	1.5-2
125Y	85	2.5 +/- 0.5	480	23	42	80	3	1-1.5
100Y	87.5	2.5 +/- 0.5	460	30	50	80	3.5	1



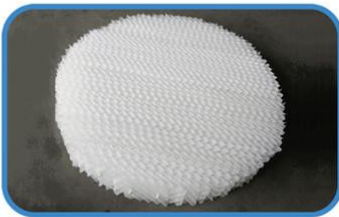
Metal Gauze Structured Packing

Model	Peak highness (mm)	Surface area (m ² /m ³)	Theoretical plate (piece/m)	Free volume (%)	Pressure drop (Mpa/m)	F-Factor (m-1)
700Y	4.3	700	8-10	87	4.5-6.5X10 ⁻⁴	1.3-2.4
500Y	6.3	500	4.5-5.5	95	3X10 ⁻⁴	2



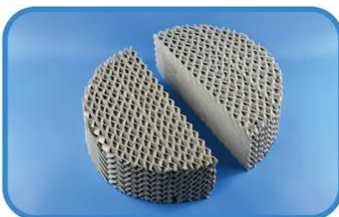
Metal Wire Mesh Demister is complicit in liquid separation device, gas through the silk cushion defoaming machine, can remove the entrained entrainment. This standard (HG/T21618-1998 is in the original chemical standards: HG5-1404-81, HG5-1405-81 and HG5-1406-81, on the basis of combined the actual screen defoaming device using revision experience and advanced technology of the device.

Metal Wire Mesh Demister



Plastic Corrugated Plate Packing

Model	Surface Area (m ² /m ³)	Free volume (%)	Pressure drop (Mpa/m)	Bulk Density (Kg/m ³)	F-Factor (m-1)
SB-125Y	125	98	200	45	3
SB-250Y	250	97	300	60	2.6
SB-350Y	350	94	200	80	2
SB-500Y	500	92	300	130	1.8
SB-125X	125	98	140	40	3.5
SB-250X	250	97	180	55	2.8
SB-350X	350	94	130	75	2.2
SB-500X	500	92	180	120	2



Ceramic Structured Packing

Model	Surface Area (m ² /m ³)	Bulk Density (kg/m ³)	Free volume (%)	Obl. Angle	Pressure drop (Mpa/m)	Theoretical plate (piece/m)	Hydraulic diameter (mm)	Liquid load (m ³ /m ² h)	F-Factor (m-1)
125Y	125	320	90	45	1.8	1.8	28	0.2-100	3.0
250Y	250	420	80	45	2	2.5	12	0.2-100	2.6
350Y	350	470	78	45	2.5	2.8	10	0.2-100	2.5
450Y	450	520	72	45	4	4	7	0.2-100	1.8
550Y	550	620	74	45	5.5	5-6	6	0.18-100	1.4
700Y	700	650	72	45	6	7	5	0.15-100	1.3

Activated Alumina

Activated alumina has much micro-paths, so the specific surface is large. It can be used as adsorbent, desiccant, defluorinating agent and catalyst carrier. It is also a kind of trace water desiccant and the pole-molecular adsorbent, according to the adsorbed molecular polarization, the attachment force is strong for water, oxide, acetic acid, alkali etc.



Activated Alumina

Item	Unit	Index				
AL ₂ O ₃	%	≥92	≥92	≥92	≥92	≥92
SiO ₂	%	≤0.10	≤0.10	≤0.10	≤0.10	≤0.10
Fe ₂ O ₃	%	≤0.04	≤0.04	≤0.04	≤0.04	≤0.04
Na ₂ O	%	≤0.45	≤0.45	≤0.45	≤0.45	≤0.45
LOI	%	≤7	≤7	≤7	≤7	≤7
Size	mm	1-2	2-3	3-5	4-6	5-7
Crashing Strength	N/Piece	≥30	≥50	≥130	≥160	≥180
Surface Area	m ² /g	≥280	≥280	≥280	≥280	≥280
Pore Volume	ml/g	≥0.4	≥0.4	≥0.4	≥0.4	≥0.4
Bulk Density	g/cm ³	0.70-0.85	0.68-0.80	0.68-0.80	0.68-0.80	0.68-0.75
Abrasion Loss	%	≤0.2	≤0.2	≤0.2	≤0.2	≤0.2



Activated Alumina for Defluorinating

Item	Unit	Index	
AL ₂ O ₃	%	≥92	≥92
SiO ₂	%	≤0.10	≤0.10
Fe ₂ O ₃	%	≤0.08	≤0.08
Na ₂ O	%	≤0.4	≤0.4
LOI	%	≤7	≤7
Size	mm	1-2	2-3
Crashing Strength	N/Piece	≥30	≥50
Surface Area	m ² /g	≥300	≥300
Pore Volume	ml/g	≥0.4	≥0.4
Bulk Density	g/cm ³	0.72-0.85	0.70-0.80
Defluorinating	mg/g	≥2.5	≥2.5



Activated Alumina as
Hydrogen Peroxide
Absorption

Item	Unit	Index	
AL ₂ O ₃	%	≥92	≥92
SiO ₂	%	≤0.10	≤0.10
Fe ₂ O ₃	%	≤0.04	≤0.04
Na ₂ O	%	0.5-0.9	0.5-0.9
LOI	%	≤6	≤6
Size	mm	3-5	4-6
Crashing Strength	N/Piece	≥100	≥120
Surface Area	m ² /g	280-320	280-320
Pore Volume	ml/g	0.45	0.45
Bulk Density	g/cm ³	0.65-0.75	0.65-0.75
Abrasion Loss	%	≤0.3	≤0.3



Potassium Permanganate
Activated Alumina

Item	Unit	Index	
Appearance		Purple Sphere	
Size	mm	2-3	3-5
AL ₂ O ₃	%	≥80	≥80
KMnO ₄	%	≥4.0	≥4.0
Fe ₂ O ₃	%	≤0.04	≤0.04
Na ₂ O	%	≤0.35	≤0.35
Moisture	%	≤20	≤20
Bulk Density	g/cm ³	≥0.8	≥0.8
Surface Area	m ² /g	≥150	≥150
Pore Volume	ml/g	≥0.38	≥0.38
Crush Strength	N/PC	≥80	≥100



Silica Gel Desiccant

Product name	Adsorption			Loss on drying at 180°C (Mpa/m)	Size (mm)	Bulk density (g/l)	PH	Qualified ratio of spherical granules (%)
	RH=20%	RH=50%	RH=90%					
Silica Gel Desiccant	≥10.5	≥23.0	≥34.0	≤2%	0.5-1.5mm 1.0-3.0mm 2-4mm 3-5mm 4-8mm	770	4-8	≥94

Molecular Sieve

Molecular sieve bears excellent features as follows: Select adsorbing per molecular size and shape, i.e., only adsorb the molecular which pore size is smaller than molecular sieve. For small polarity molecules and unsaturated molecules, the higher degree of saturation and polarity, the stronger selective adsorption is; Strong water absorption. Even under high temperature and low moisture content, Molecular sieve still have very high absorption capacity.



3A Molecular Sieve

Item	Unit	3A			
Shape		Sphere		Pellet	
Diameter	mm	1.7-2.5	3.0-5.0	1.6	3.2
Size ratio up to grade	%	≥98	≥98	≥96	≥96
Bulk density	g/cm ³	≥0.72	≥0.70	≥0.66	≥0.66
Wear ratio	%	≤0.20	≤0.20	≤0.20	≤0.20
Crushing strength	N	≥55/piece	≥85/piece	≥30/piece	≥40/piece
Static H ₂ O adsorption	%	≥21.0	≥21.0	≥21.0	≥21.0
Ethylene adsorption	%	≤3.0	≤3.0	≤3.0	≤3.0
Water content	%	≤1.5	≤1.5	≤1.5	≤1.5



4A Molecular Sieve

Item	Unit	4A			
Shape		Sphere		Pellet	
Diameter	mm	1.7-2.5	3.0-5.0	1.6	3.2
Size ratio up to grade	%	≥98	≥98	≥96	≥96
Bulk density	g/cm ³	≥0.72	≥0.70	≥0.66	≥0.66
Wear ratio	%	≤0.20	≤0.20	≤0.20	≤0.20
Crushing strength	N	≥35/piece	≥85/piece	≥35/piece	≥70/piece
Static H ₂ O adsorption	%	≥22.0	≥22.0	≥22.0	≥22.0
Static methanol adsorption	%	≥15	≥15	≥15	≥15
Water content	%	≤1.0	≤1.0	≤1.0	≤1.0



5A Molecular Sieve

Item	Unit	5A			
Shape		Sphere		Pellet	
Diameter	mm	1.7-2.5	3.0-5.0	1.6	3.2
Size ratio up to grade	%	≥98	≥98	≥96	≥96
Bulk density	g/cm ³	≥0.72	≥0.70	≥0.66	≥0.66
Wear ratio	%	≤0.20	≤0.20	≤0.20	≤0.20
Crushing strength	N	≥45/piece	≥100/piece	≥40/piece	≥75/piece
Static H ₂ O adsorption	%	≥22.0	≥22.0	≥22.0	≥22.0
Water content	%	≤1.0	≤1.0	≤1.0	≤1.0


13X Type Molecular Sieve

Item	Unit	13X			
		Sphere		Pellet	
Shape					
Diameter	mm	1.7-2.5	3.0-5.0	1.6	3.2
Size ratio up to grade	%	≥98	≥98	≥96	≥96
Bulk density	g/cm ³	≥0.70	≥0.68	≥0.65	≥0.65
Wear ratio	%	≤0.20	≤0.20	≤0.20	≤0.20
Crushing strength	N	≥35/piece	≥85/piece	≥30/piece	≥45/piece
Static H ₂ O adsorption	%	≥25	≥25	≥25	≥25
Static CO ₂ adsorption	‰	≥17	≥17	≥17	≥17
Water content	%	≤1.0	≤1.0	≤1.0	≤1.0


13X APG Molecular Sieve

Item	Unit	13X APG			
		Sphere		Pellet	
Shape					
Diameter	mm	1.7-2.5	3.0-5.0	1.6	3.2
Size ratio up to grade	%	≥98	≥98	≥98	≥98
Bulk density	g/cm ³	≥0.70	≥0.68	≥0.65	≥0.65
Wear ratio	%	≤0.20	≤0.20	≤0.20	≤0.20
Crushing strength	N	≥35/piece	≥85/piece	≥30/piece	≥45/piece
Static H ₂ O adsorption	%	≥27	≥27	≥27	≥27
Static CO ₂ adsorption	‰	≥18	≥18	≥18	≥18
Water content	%	≤1.0	≤1.0	≤1.0	≤1.0


Carbon molecular sieve

Type	Adsorption pressure (MPa)	Output of the nitrogen concentration (N ² %)	Output the content of nitrogen (NM ³ /h.t)	The air consumption ratio (%)
CMS-200	0.8	99.99	70	21
		99.9	140	27
		99.5	200	36
		99	260	41
		98	330	48
CMS-220	0.8	99.99	90	25
		99.9	160	34
		99.5	220	43
		99	290	48
		98	360	54
CMS-240	0.8	99.99	100	26
		99.9	175	35
		99.5	240	44
		99	300	49
CMS-260	0.8	98	370	55
		99.99	110	27
		99.9	190	36
		99.5	260	45
		99	310	50
		98	380	56

Honeycomb Ceramic

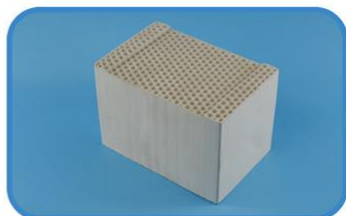
Honeycomb is one kind of porosity industry ceramic. With characters on large specific area, low resistance, uniform flow distribution, high separation efficiency, honeycomb is widely used in chemical engineering, metallurgy, coal gas, foods, environmental protection etc. Material is mainly from cordierite, mullite, aluminum ceramic.

RTO Heat Exchange Honeycomb Ceramic



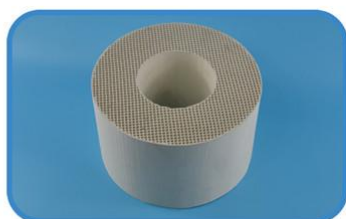
Size mm	Cells (N×N)	Cell Density (CPSI)	Channel Width (mm)	Inner Wall Thickness (mm)	Free Cross Section (%)
150×150×300	20×20	11	6.00	1.35	64
150×150×300	25×25	18	4.90	1.00	67
150×150×300	32×32	33	3.70	0.90	63
150×150×300	40×40	46	3.00	0.70	64
150×150×300	43×43	50	2.80	0.65	64
150×150×300	50×50	72	2.40	0.60	61
150×150×300	59×59	100	2.10	0.43	68

(mm) Size	Pass	(mm) Channel Width
100×100×100	Square Hexagonal Hole	3、3.5、4、5、6、8
150×100×100	Square Hexagonal Hole	3、3.5、4、5、6、8



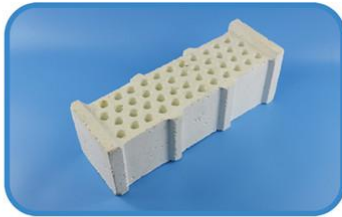
Chemical Composition

Item	Cordierite	Mullite	Alumina Porcelain	High Alumina Porcelain	Corundum
Al ₂ O ₃	33	65	54	67	72
SiO ₂	58	30	39	23	22
MgO	7.5	<1	3.3	1.7	<1
其他 Others	1.5	1.4	3.7	8.3	5



Physical Properties

Model	Cordierite (Porous)	Mullite	Alumina Porcelain	High Alumina Porcelain	Corundum	
Density (g/cm ³)	1.8	2.0	1.9	2.2	2.5	
Water Absorption (%)	23	18	20	13	12	
Coefficient of Thermal Expansion (×10 ⁻⁶ K ⁻¹) (20 ~ 800°C)	≤3.0	≤6.0	≤6.3	≤6.0	≤8.0	
Specific Heat (J/Kg.K) (20 ~ 1000°C)	750-900	1100-1300	850-1100	1000-1300	1300-1400	
Thermal Conductivity (W/m.k) (20 ~ 1000°C)	1.3-1.5	1.5-2.3	1.0-2.0	1.5-2.3	5 ~ 10	
Max. WorkingTemp.(°C)	1200	1400	1300	1400	1650	
Axial crushing strength (MPa)	Dry	≥11	≥20	≥11	≥22	≥25
	Immersion	≥2.5	≥2.5	≥2.5	≥2.5	≥2.5



Honeycomb protective block

Chemical composition and Physical properties

Item	White fused alumina	Mullite	High Alumina Porcelain
Al ₂ O ₃ (%)	80-86	56-65	53-60
SiO ₂ (%)	11-19	32-41	37-44
Others (%)	≤3	≤3	≤3
Specific gravity (g/cm ³)	1.7	1.5	1.5
Thermal expansion (X10 ⁻⁶ /°C)	6.5-8	7-8	7-8
Max. operating Temp. (°C)	1650	1450	1350
Compressive strength (MPa)	>35	>30	>30



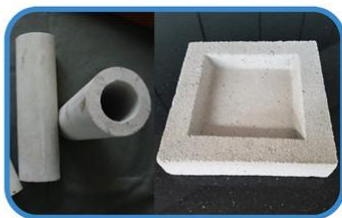
Acid Resistant Bricks ,
Tile,Tube

Physical properties

Item	Unit	Index	Standard
Specific weight	g/cm ³	2.31-2.4	ZBG940030-86
Water absorption	%	≤0.2	GB8488-87
Acid-resistance	%	≥99.8	GB8488-87
Flexural strength	Mpa	≥42	GB8488-87
Crushing strength	Mpa	≥120	ZBG940030-86
Thermal stability	130 -20 degree C	No crackle after 3 times	GB8488-87

Bricks, plate main specification

Name	Size(mm)	Name	Size(mm)
Standard brick	230*113*65	Anti-acid ceramic plate	100*100*15-30
Rectangular brick	230*113*65	Anti-acid ceramic plate	150*150*15-30
Transv wedge brick	230*113*55/65	Anti-acid ceramic plate	200*200*15-30
Transv wedge brick	230*113*25/65	Anti-acid ceramic plate	300*300*15-30
Transv wedge brick	230*113*35/65	Anti-acid ceramic plate	150*75*15-30
Transv wedge brick	230*113*45/65	Anti-acid ceramic plate	180*110*15-30

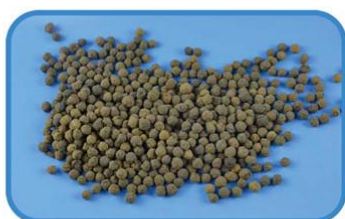


Microporous Filter Bricks ,
Tile,Tube

Item	Index	Item	Index	Item	Index
(kg/m ³) Volume weight	60-75%	(Mpa) Transv strength	1-4%	(t/m ² h) Water penetrability	1-5%
(μm) Volume weight	60-75%	(Mpa) Crashing strength	1-4%	(m ³ /m ² h) Water penetrability	1-5%
(kg/m ³) Volume weight	60-75%	(Mpa) Transv strength	1-4%	(t/m ² h) Water penetrability	1-5%
(kg/m ³) Volume weight	60-75%	(Mpa) Transv strength	1-4%	(t/m ² h) Water penetrability	1-5%

Water Treatment Filter Media

Ceramic filter has the hard surface, the internal multi-porous, large surface area, high porosity. It is used for water treatment with strong filter capability, long cycle time of filter, low consuming on water filter end and backwash. It is a new type of media which can enhance the production of water, improve water quality and energy-saving consumption.



Ceramic Sand Filter

Chemical composition

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	MgO	CaO	K ₂ O Na ₂ O
15-22%	60-75%	6-10%	1-4%	2-5%	1-5%

Performance parameters

Item	Units	Index
Size	mm	0.5-32
Density	g/cm ³	0.9-1.1
Porosity	%	55
Wear rate	%	1.62
Non-uniform coefficient	%	K80=1.84
Uniformity coefficient	%	K60=1.47
Rate of hydrochloric acid-soluble	%	2.83
The rate of sodium hydroxide-soluble	%	1.50

The porcelain sand filter is produced by high-quality kaolin clay, binders, pore-forming agent after burning in high temperature. It is new type of filtering material with white appearance, hard, uniform particles, the developed micro-porous: porosity, and good roundness. It is the upgraded product for traditional media such as quartz sand and Anthracite.



Porcelain Sand Filter

Chemical composition

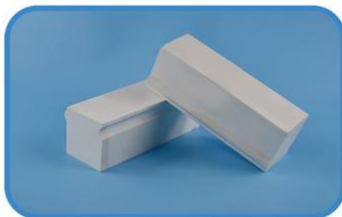
Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	MgO	CaO	K ₂ O Na ₂ O
15-19%	68-74%	<1.0%	<0.7%	<0.5%	<4%

Performance parameters

Project analysis	Test data	Project analysis	Test data
Proportion	2.57g/cm ³	Acid resistance	98%
Bulk density	1.4g/cm ³	Alkali resistance	92%
Wear rate	0.02%	SiO ₂	58-74%
Breakage	0.75%	Fe ₂ O ₃	≤1%
Porosity	40-45%	Al ₂ O ₃	15-19%



Alumina Grinding Ball



Alumina Bricks

Grinding Ceramics

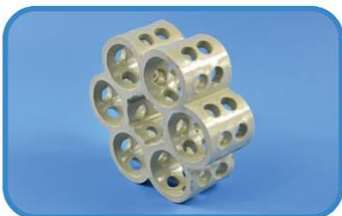
Item		High Alumina Grinding Balls		Medium Alumina Grinding Balls
Chemical Content (%)	Al ₂ O ₃ (%)	95	≥92	65-75
	SiO ₂ (%)	3	3.81	30-15
	Fe ₂ O ₃ (%)	0.05	0.06	0.41
	TiO ₂ (%)	0.04	0.02	1.7
	Others (%)	1.9	2.53	5
Bulk Density (kg/cm ³)		3.68	3.65	2.93-3.00
Water absorption (%)		<0.005	<0.01	<0.01
Mohs Hardness (级 scale)		9	9	≥8
Compressive strength(Mpa)		2100	>2000	>1000
Abrasion loss (%)		0.0084	0.01	0.011

Size(mm)	20	30	40	50	60
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Other size can be customized



Combined ceramic light packing



Combined ceramic packing

Combined ceramic packing

Product name	七孔连环	七孔带筋环	六菱环	六菱多筋环	旋转多齿环
Size	X-01	X-11	X-12	X-13	X-14
Outside diameter (mm)	220±25	220±25	220±25	220±25	220±25
Space (mm)	20	20	20	20	20
Pore size (mm)	65	65	65	65	65
Surface area (m ² /m ³)	118	128	135	132	148
Free volume (%)	85	75	72	75	73
Bulk Density (Kg/m ³)	280	320	340	300	348
Bulk numbers (n/m ³)	200	200	200	200	200

Package methods



..... Super bags put on pallet



..... Bags put on pallet



..... Cartons put on pallet



..... Cartons



..... Wooden cases



.....Drums put on pallets with plastic film.....



..... Container



..... Container



..... Drums load into containers



..... Fumigated pallet



..... Load into containers



..... Load into containers



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