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## METAL PALL RING

Metal Pall ring is one of the most common and well known random tower packings, it is an industry standard design media developed from the Raschig Ring and is used widely in variety of applications. By improving the Metal pall ring geometry enables high gas and liquid transfer rates, greater capacity and lower pressure drop than standard cylindrical rings. The interior and exterior contacting surfaces of the Metal pall ring provide for an effective distribution of liquids and gasses and resist plugging, fouling and nesting.

Advantages: 1), Lower presure drop. 2), Huge flux. 3), High efficiency.

Material available: **Carbon steel, stainless steel including 304, 304L, 410, 316, 316L.**

Sizes (mm)	Bulk density (kg/m <sup>3</sup> )	Number (per m <sup>3</sup> )	Surface area (m <sup>2</sup> /m <sup>3</sup> )	Free volume (%)
16*16*0.3	360	201000	346	95.5
25*25*0.4	302	5100	212	96.2
25*25*0.5	400	51000	216	95
25*25*0.6	461	51000	219	94.2
38*38*0.4	218	15000	143	97.2
38*38*0.5	262	15180	145	96.7
38*38*0.6	328	15000	146	95.9
50*50*0.5	194	6500	106	97.5
50*50*0.7	285	6500	108	96.4
50*50*0.8	310	6500	108	95.6
50*50*0.9	365	6500	109	95.4
76*76*0.8	205	1830	69	97.4
90*90*1.0	229	1160	62	97.1



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## Plastic PALL RING

Plastic Pall Ring is versatile. This product was advanced on the basis of Plastic Raschig Ring, and compared with it, both of them have similar cylindrical dimensions but the Plastic Pall Ring has two rows of punched out holes, with fingers or webs turned into the centre of the cylinder, which significantly increases the performance of the packing, in terms of throughput, efficiency and pressure drop.

### Application of Plastic Pall Ring:

Absorption, scrubbing, and stripping services. Versatile alternative to metal Pall rings. A variety of different sizes of products provide the ability to optimize capacity and efficiency based on different application requirements, and the application temperature in media ranges from 60 to 150 °C.

### Materials:

Plastic tower packings are made of heat resistant and chemical corrosion resistant plastics, including polyethylene (PE), polypropylene (PP), reinforced polypropylene(RPP), polyvinyl chloride(PVC), chloridized polyvinyl chloride(CPVC) and polyvinylidene fluoride (PVDF). FEP, PEEK, PTFE etc

### Tech Data of Plastic Pall Ring:

Specification (mm)	D×H×δ (mm)	Specific area (m <sup>2</sup> /m <sup>3</sup> )	Void volume (m <sup>3</sup> /m <sup>3</sup> )	Bulk number (n/m <sup>3</sup> )	Package density (kg/m <sup>3</sup> )	F factor (m <sup>-1</sup> )
Dg16	16×16×1	188	0.91	112000	141	275
Dg25	25×25×1.2	175	0.90	53500	82	239
Dg38	38×38×1.4	115	0.89	15800	54	220
Dg50	50×50×1.5	93	0.90	6500	56	127
Dg76	76×76×2.6	73.2	0.92	1927	58	94
Dg100	100×100×3.0	52.8	0.94	1000	50	82

\*Note:The above data sub to the material PP.



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## Ceramic PALL RING

**Ceramic Pall Ring** has great advantage of acid and heat resistance. It can resist almost all kinds of inorganic acid, organic acid, and organic solvents except HF acid and can be used in high and low temperature conditions. It can be widely used in the tower of dry, absorbing, cooling, scrubbing and recovery etc, in chemical, petrochemical and metallurgical industry.

Random Packing Ceramic Pall Ring is some kind of random packing, has superior acid and heat resistance, and can resist the corrosion of various strong acid and alkali except hydrofluoric acid. It is able to applied to the drying tower, absorbing tower, cooling tower, desulphurization towers, rectifying tower, washing tower and regenerative tower in petro-chemistry, chemical engineering, coal chemical engineering, elaborate chemical engineering, fertilizer, sulphuric acid, smelting, electrical power and environmental protection industries.

Type	Dimension D x H x $\delta$ mm	Specific Surface (a) m <sup>2</sup> /m <sup>3</sup>	Free Volume ( $\epsilon$ ) m <sup>3</sup> /m <sup>3</sup>	Quantity n/m <sup>3</sup>	Bulk Density $\gamma_p$ kg/m <sup>3</sup>	Packing Factor (dry) (a) m <sup>2</sup> /m <sup>3</sup>
Ø25	25 x 25 x 3.0	220	0.73	54000	620	565
Ø38	38 x 38 x 4	150	0.75	13400	570	356
Ø50	50 x 50 x 5	120	0.78	6800	550	252
Ø80	80 x 80 x 8	75	0.80	1950	520	146

Al <sub>2</sub> O <sub>3</sub>	17-23%
SiO <sub>2</sub>	>70%
Fe <sub>2</sub> O <sub>3</sub>	<1.0%
CaO	<1.5%
MgO	<0.5%



# 宁波天大化工设备科技有限公司

## TIANDIA CHEMICAL INDUSTRIAL(TCI) CO., LTD

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K2O + Na2O	<3.5%
Other	<1%

Item	Value
Water absorption	<0.5%
Apparent porosity (%)	<1
Specific gravity	2.3-2.35
Operation temp.(max)	1000°C
Moh's hardness	>7 scale
Acid resistance	>99.6%

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