



JINTAI Metal Random Packing

JINTAI Group has developed the following most commonly used metal random packings:

- JINTAI Metal Pall Ring: **JT-MPR**
- JINTAI Metal Saddle Ring: **JT-MSR**
- JINTAI Metal Raschig Ring : **JT-MRR**
- JINTAI Metal Cascade Ring : **JT-MCR**
- JINTAI Metal Nutter Ring : **JT-MNR**

Metal random packings are available in various materials of construction such as:

Carbon Steel **Stainless Steel**
Titanium and Zirconium **Copper**
Aluminum

General applications:

- Various separation, absorption and desorption equipment
- Normal atmospheric pressure reduced and vacuum distillation plant
- De-carbureting and desulfuration systems
- Ethyl benzene separation
- Iso-octane/toluene systems

JINTAI Group

Email: biz@jintai-group.cn

Web: www.ceramic-honeycombs.com

Tel: +86-799-6886565 Fax: +86-799-6810066

JINTAI Metal Pall Ring (JT-MPR)

JT-MPR is equivalent to well known Pall[®] Ring:



JT-MPR

JT-MPR Advantage

- Lower pressure drop
- Good liquid / gas distribution and higher mass transfer efficiency
- Versatility, Easily wetttable, High resistance to fouling, High Temperature
- High Mechanical Strength, suitable for deeper beds
- High temperature resistance

Technical Parameter

Size	Dimension (mm)	Quantity n/m ³	Specific Surface m ² /m ³	Bulk Density kg/m ³	Void %
10	Φ10 xH10 x 0.3	768000	482	571	92.7
16	φ16 xH16 x 0.3 (0.4)	214000	338	408(543)	93.1
25	φ25 xH25 x 0.5 (0.6)	52000	218	403(483)	94.8
38	φ38 xH38 x 0.6 (0.8)	15200	141	326 (435)	96.08
50	φ50 xH50 x 0.8 (1.0)	6500	107	322 (403)	95.9
76	Φ76 xH76 x 1.0 (1.2)	1830	74	262(314)	97
89	Φ89 xH89 x 1.2 (1.5)	1200	65	293(353)	98

Specification for JT-MPR

JINTAI Group

Email: biz@jintai-group.cn

Web: www.ceramic-honeycombs.com

Tel: +86-799-6886565 Fax: +86-799-6810066

JINTAI Metal Saddle Ring (JT-MSR)

JT-MSR is equivalent to well known KOCH IMTP:



JT-MSR

JT-MSR Advantages:

- 30% Lower pressure drop than Pall® Ring
- Large capacity and higher efficiency than other packing.
- Geometric design minimizes liquid hold-up.

Technical Parameter

Dimension D	Quantity n/m ³	Specific Surface m ² /m ³	Void %	Packing Factor
#15	347500	291.3	95.6	51
#25	135000	225.8	96.6	41
#40	50000	150.8	97.7	28
#50	15000	100	98	18
#70	4625	60	98.5	12

Specification for JT-MSR

JINTAI Group

Email: biz@jintai-group.cn

Web: www.ceramic-honeycombs.com

Tel: +86-799-6886565 Fax: +86-799-6810066

JINTAI Metal Raschig Ring (JT-MRR)

JT-MRR is equivalent to well known Raschig Ring:



JT-MRR

JT-MRR applications:

- Petrochemical distillation and extraction applications
- Absorption in gas processing and combustion plants
- Desorption in water treatment

Technical Parameter

Size	Dimension mm	Quantity n/m ³	Specific Surface m ² /m ³	Bulk Density kg/m ³	Void %
10	Φ10 xH10 x 0.3	768000	500	571	75
12.7	Φ12.7 xH12.7 x 0.3	410000	400	490	80
16	Φ16 xH16 x 0.3(0.4)	214000	350	408(543)	86
25	Φ25 xH25 x 0.5(0.6)	52000	220	403(483)	88
38	Φ38 xH38 x 0.6(0.8)	15200	150	326 (435)	90
50	Φ50 xH50 x 0.8(1.0)	6500	110	322 (403)	92
76	Φ76 xH76 x 1.0(1.2)	1830	68	262(314)	95
89	Φ89 xH89 x 1.2(1.5)	1200	58	293(353)	97

Specification for JT-MRR

JINTAI Group

Email: biz@jintai-group.cn

Web: www.ceramic-honeycombs.com

Tel: +86-799-6886565 Fax: +86-799-6810066

JINTAI Metal Cascade Ring (JT-MCR)

JT-MCR is equivalent to well known CMR:



JT-MCR

JT-MCR Applications:

- Desulphurization and decarburization system in compound ammonia plant
- Decompressed plant in crude oil separated plant
- All kind of separation process such as separation of methanol
- Separation of organic acid, absorb towers etc.

Technical Parameter

Size	Dimension mm	Quantity n/m ³	Specific Surface m ² /m ³	Bulk Density kg/m ³	Void %	Factor m ⁻¹
0P	Φ17xΦ17xH6 x 0.3	530000	427	472	94	55
1P	Φ25xΦ22xH8 x 0.3	150000	230	270	96	40
1.5P	Φ34xΦ29xH11 x 0.3	60910	198	201	97	29
2P	Φ43xΦ38xH14 x 0.4	33170	164	230	97	22
2.5P	Φ51xΦ44xH17 x 0.4	17900	127	186	97	17
3P	Φ66xΦ57xH21 x 0.4	8800	105	139	98	14
4P	Φ86xΦ76xH29 x 0.4	4200	90	143	98	10
5P	Φ131xΦ118xH41 x 0.6	1480	65	136	98	7

Specification for JT-MCR

JINTAI Group

Email: biz@jintai-group.cn

Web: www.ceramic-honeycombs.com

Tel: +86-799-6886565 Fax: +86-799-6810066

JINTAI Metal Nutter Ring (JT-MNR)

JT-MNR is equivalent to Nutter Ring:



JT-MNR

JT-MNR Advantages:

- Excellent mechanical strength
- Improved efficiency due to lateral liquid diffusion and surface film renewal
- Outstanding surface utilization in mass and heat transfer applications
- Shorter packed bed heights
- Maximum piece-to-piece contact with minimal nesting
- High strength to weight ratio allows up to a 15 meters bed height
- Consistent performance due to uniform randomness

Technical Parameter

Diameter (mm)	Number/m ³	Weight (kg/m ³)	Surface area (m ² /m ³)	Free volume (%)
No.0.7	167400	176	226	97.7
No.1.0	67100	178	168	97.7
No.1.5	26800	181	124	97.8
No.2.0	13600	144	96	97.8
No.2.5	8800	121	83	97.9
No.3.0	4 200	133	66	98.1

Specification for JT-MNR

Other thicknesses are available upon request. The technical data are average values and approximate sizes, subject to changes and improvements. No claims may be derived from information given.

JINTAI Group

Email: biz@jintai-group.cn

Web: www.ceramic-honeycombs.com

Tel: +86-799-6886565 Fax: +86-799-6810066