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Metal Random Packing

Metal Random Packing (Metal Tower Packing) is made of materials like carbon steel, stainless steel or Aluminum alloy, etc. The Metal Random packing is very good mass transfer media in kinds of chemical units and towers.

Materials: S.S.302, 304, 316, 316L, 317, 317L, carbon steel, Stainless steel (AISI304), aluminum, alloy, etc.

Main items/types:

- a. Metal Rasching Ring (KPK-MRP)
- b. Metal Pall Ring (KPK-MPR)
- c. Metal Intalox Saddle Ring (KPK-MIS)
- d. Metal Cascade Mini Ring (KPK-MCMR)
- e. Metal Conjugate Ring (KPK-MCR)

Advantages:

- 1) Thin
- 2) Heat resistant
- 3) Big flow
- 4) Low physical resistance
- 5) High separation efficiency
- 6) It is especially suitable for the vacuum rectifying apparatus. processing the thermo-sensitive, easy-decomposition, and easy-coking materials.

Application:

Widely used in the packing towers in petrochemical industry, fertilizer industry, and environmental protection industry 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.

Metal Pall Ring

Product No.: KPK-MPR



Illustration 1: Metal Pall Ring(KPK-MPR)

Metal Pall Ring is one of the most common and well known packing, CHEMPACK Metal Pall Ring is an industry standard design media developed from Metal Raschig Ring and is used widely in varieties of applications.

Material: Metal Pall rings are available in a wide range of materials such as stainless steel, carbon steel, aluminum, bronze, 304L, 316L, and other alloy etc.

Advantage:

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

Application:

Absorption, Aeration, Degassing, Desorption, Distillation, Stripping, Heat Recovery, Extraction etc.

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Size & Specification:

Product Name	Size mm	Diameter* Height* Thickness mm	Surface Area m ² /m ³	Void Space %	Bulk Density kg/m ³	Number/ m ³	Packing factor m ⁻¹
Pall ring	Φ25	25×25×0.5	219	95	393	51940	255
	Φ38	38×38×0.6	146	96	318	15180	165
	Φ50	50×50×0.8	109	96	314	6500	124
	Φ76	76×76×1.2	71	96	308	1830	80

Other pictures:

Illustration 2: Metal Pall Ring(KPK-MPR)



Illustration 3: Metal Pall Ring(KPK-MPR)

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Metal Intalox Saddle Ring

Product No.: KPK-MIS



Illustration 4: Metal Intalox Saddle Ring(KPK-MIS)

CHEMPACK Metal Intalox Saddle Ring is high performance random packing successfully used in mass transfer towers both small and large diameter. It is frequently used in deep vacuum towers where low pressure drop is crucial and also high pressure towers where capacity significantly exceeds conventional trays. CHEMPACK Metal Intalox Saddle Ring or metal saddle is available in various sizes, which give different combinations of efficiency and pressure drop.

Advantages:

- low pressure drop and high efficiency
- large effective interfacial area
- high mechanical strength
- low cost

Application:

- Transfer towers both small and large diameter
- Deep vacuum towers where low pressure drop is crucial and also high pressure towers where capacity significantly exceeds conventional trays
- Distillation, absorption etc
- High pressure towers

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Size & Specification:

Product Name	Size mm	Diameter* Height* Thickness mm	Surface Area m ² /m ³	Void Space %	Bulk Density kg/m ³	Number/ m ³	Packing factor m ⁻¹
Metal Intalox saddles	Φ25	25×20×0.6	185	96	409	101160	209
	Φ38	38×30×0.8	112	96	365	24680	137
	Φ50	50×40×1.0	75	96	291	10400	85
	Φ76	76×60×1.2	58	97	245	3320	63

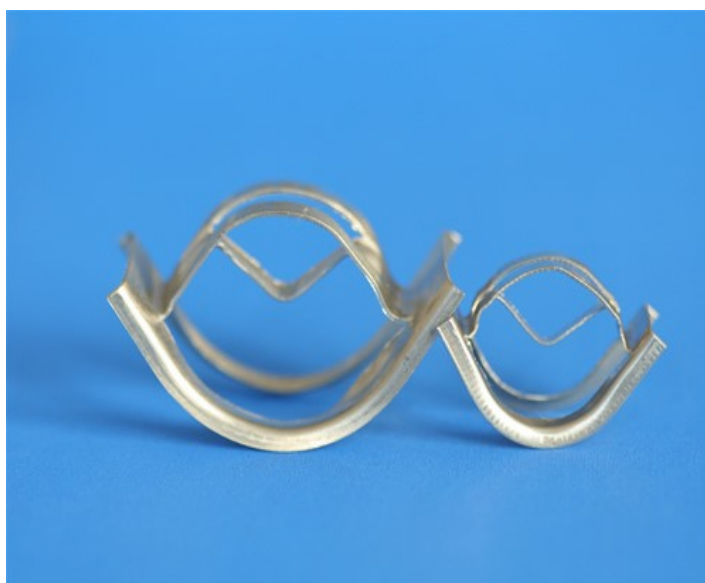
Other pictures:

Illustration 5: Metal Intalox Saddle Ring(KPK-MIS)

Metal Raschig Ring

Product No.: KPK-MRR

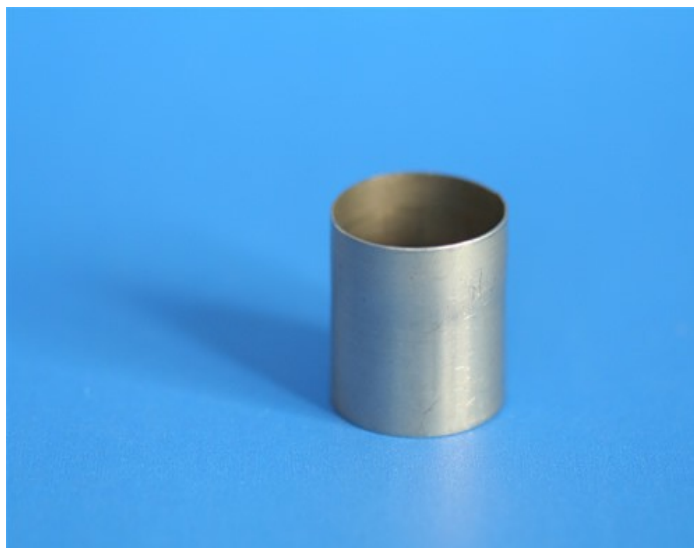


Illustration 6: Metal Raschig Ring(KPK-MRR)

Since F.Raschig invented this type of ring for tower packing in 1914, random tower packing has been developed extensively. Metal Raschig Ring is proved to be a kind of good tower packing in a wide range of mass transfer applications. CHEMPACK can offer metal raschig rings of different sizes and materials according to your specific separation applications.

Advantages:

- High capacity
- Low pressure drop
- High separation
- Cold and heat resistant
- Long life

Application:

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

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Size & Specification:

Product Name	Size mm	Diameter* Height* Thickness mm	Surface Area m ² /m ³	Void Space %	Bulk Density kg/m ³	Number/ m ³	Packing factor m ⁻¹
Metal raschig ring	Φ16	16×16×0.5	350	90	660	2480000	460
	Φ25	25×25×0.8	220	93	610	55000	290
	Φ50	50×50×1.0	110	95	430	7000	130
	Φ80	80×80×1.0	60	96	400	1820	80

Note: The above data is reference to material stainless steel (AISI304) in the material thickness shown. Other material available: carbon steel, stainless steel including 304, 304L, 410, 316, 316L.

Other pictures:

Illustration 7: Metal Raschig Ring(KPK-MRR)



Illustration 8: Metal Raschig Ring(KPK-MRR)

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Metal Cascade Mini Ring

Product No.: KPK-MCMR

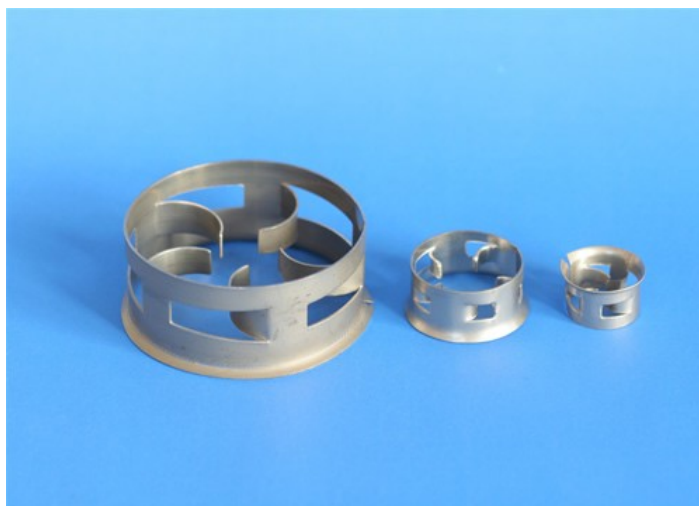


Illustration 9: Metal Cascade Mini Ring(KPK-MCMR)

The lower aspect ratio of CHEMPACK Metal Cascade Ring increases capacity and reduces pressure drop, the highly exposed internal and external surfaces give a high efficiency vehicle for liquid – gas contact with good mechanical strength.

Advantages:

- Reduced pressure drop
- Increased plant capacity
- Improved resistance to “fouling”
- Higher operational efficiency

Application:

CHEMPACK Metal Cascade Mini Rings (KPK-MCMR) are widely used in:

- 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
- Absorbing or desorbing tower

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Size & Specification:

Product Name	Size mm	Diameter* Height* Thickness mm	Surface Area m ² /m ³	Void Space %	Bulk density kg/m ³	Number/ m ³	Packing factor m ⁻¹
Metal Cascade Ring	Φ25	25×12.5×0.5	221	95	383	98120	257
	Φ38	38×19×0.6	153	96	325	30040	173
	Φ50	50×25×0.8	109	96	308	12340	123
	Φ76	76×38×1.2	72	96	306	3540	81

Other pictures:

Illustration 10: Metal Cascade Mini Ring(KPK-MCMR)

Metal Conjugate Ring

Product No.: KPK-MCR



Illustration 11: Metal Conjugate Ring(KPK-MCR)

This product combines the advantages of ring and saddles. The structure of the product is conjugate curve, and Metal Conjugate Ring has some features of structured packing for its uniformity holes and low resistance.

Application: Distillation, gas absorbing, desorbing system

Size & Specification:

Product Name	Size mm	Diameter* Height* Thickness mm	Surface Area m ² /m ³	Void Space %	Bulk Density kg/m ³	Number/ m ³	Packing factor m ⁻¹
Metal Conjugate ring	Φ25	25×25×0.3	185	95	312	75000	216
	Φ38	38×38×0.5	116	96	275	19500	131
	Φ50	50×50×0.8	86	96	275	9770	97
	Φ76	76×76×1.0	81	97	245	3980	95

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