

## Ceramic Structured Packing

**Product No.:** KPK-CSP



*Illustration 1: Ceramic Structured Packing(KPK-CSP)*

The Ceramic structured packing has the advantages of a higher surface area, flux, less resistance, higher efficiency, corrosion resistance and high-temperature resistance (up to 1000°C or above). It is flexible in operation and without amplification effect in a large tower, and particularly suitable for the rectification and absorption of corrosive mixture on the occasion of strict requirements of pressure drop and number of theoretical plates.

### **Advantages:**

- High liquid & vapor loading, Column diameter could be designed smaller for new equipment
- capacity could be increased dramatically for existing column revamp.
- High resistance to nearly all mineral and organic acids and derivatives, partly resistant to alkalis
- High mass transfer efficiency, much higher specific surface area than random packing
- Low pressure drop, considerable energy savings
- Wide turn down ratio. Easy to scale up
- Suitable for all sizes of column

### **Application:**

Ceramic structured packing was not only widely used in coal gas washing tower, fertilizer heat gas saturation tower, naphthalene washing tower, ammonia washing tower, but also

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as the support for heat exchange machine , catalyst, and suit for a big tower rebuilding/revamp.

### Physical & Chemical properties:

Specific gravity (g/cm<sup>3</sup>): 2.5  
 Water absorption (wt%): ≤0.5  
 Acid resistance (wt%): ≥99.5  
 Loss in burn (wt%): ≤5.0  
 Max. Operating Temp. (°C): 800  
 Crush strength (MPa): ≥130  
 Mok's Hardness (Scale): ≥7

### Chemical Composition of CHEMPACK Ceramic Structured Packing:

CHEMICAL COMPOSITION (wt. %)	KPK-CSP
SiO <sub>2</sub>	≥72
Al <sub>2</sub> O <sub>3</sub>	≥23
Calcium, CaO	≤1.0
MgO	≤1.0
Fe <sub>2</sub> O <sub>3</sub>	≤0.5
Other	2

Typical chemical analysis of KPK-CSP

### Characteristic Indexes of Ceramic Structured Packing:

Type	Surface Area m <sup>2</sup> /m <sup>3</sup>	Void Fraction %	Bulk Density kg/m <sup>3</sup>	Wave Height mm	Wave Span mm	Thickness mm	Nt m <sup>-1</sup>	Max.F-factor m/s.(kg/m <sup>3</sup> ) <sup>0.5</sup>	ΔP Pa/m
450	450	75	520-550	6.0±0.5	12±0.5	1.0-1.3	3-4	1.8-2.0	200-250
400	400	76	500-520	7.0±0.5	14±0.5	1.0-1.3	2.8-3.2	2.0-2.2	180-260
350	350	78	480-520	8.0±0.5	16±0.5	1.2-1.5	2.5-2.8	2.2-2.6	200-260
250	250	82	420-450	11.0±0.5	22±0.5	1.2-1.5	2.3-2.5	2.6-2.8	220-280
160	160	86	350-380	17.0±0.5	34±0.5	1.5-2.0	1.8-2.0	2.8-3.0	250-300
125	125	87	300-350	23.0±0.5	42±0.5	2.0-2.5	1.5-1.8	3.0-3.2	280-350
100	100	90	220-250	30.0±0.5	50±0.5	2.0-2.5	1	3.5	250-300

The ceramic structured packing has the types of 100-750X/Y, X and Y respectively represents the wave angle are 30° & 45°, and the number means the value of surface. The diameter can be manufactured in 100-8000mm. It can also be designed and manufactured to meet the need of specific applications.

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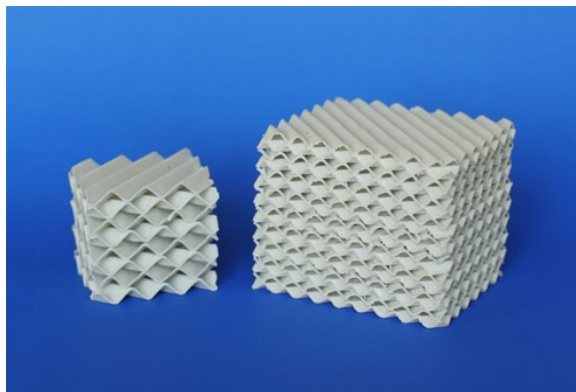
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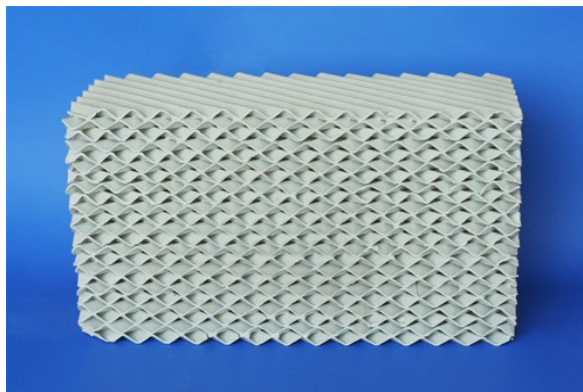
### Product design:

If our product standard didn't meet your needs, CHEMPACK is glad to work with your company and design it for your specific application.

### Other pictures:



*Illustration 2: Ceramic Structured Packing(KPK-CSP)*



*Illustration 3: Ceramic Structured Packing(KPK-CSP)*