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Ceramic Stepped Ring Filler



The ceramic stepped ring filler absorbs the characteristics of the Rasch ring and improves the Bauer ring. The height to diameter ratio of the ring is 1:2, and a conical turnup is added at one end to reduce the resistance of gas passing through the bed layer, increase the flux, and enhance the packing strength. Due to the structural characteristics of the ceramic stepped ring, the gas-liquid distribution is uniform, the gas-liquid contact area is increased, and the mass transfer efficiency is improved

1. Technical parameters of ceramic stepped ring filler

Item	Unit	Value
SIO ₂	%	71-73
Al ₂ O ₃	%	15-18
Fe ₂ O ₃	%	≤1.5

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CaO	%	1-2
K ₂ O+Na ₂ O	%	2-4
Specific gravity	g/cm ³	2.25-2.35
Water absorption	%	<0.3
Acid resistance	%	≥99.8
Alkali resistance	%	>85
Working temperature	°C	1100
Moh's hardness		>6.5

2. Specification parameter of ceramic stepped ring filler

Type	Weight per cubic meter	Specific surface area	Porosity	packing factor
mm	Kg/m ³	m ²	%	m-l
Φ25*20*3	624	270	70	172
Φ38*30*4	700	192	81	192
Φ50*30*5	580	149.6	78	223
Φ76*45*7	530	75	79	126

3. Description of Ceramic Stepped Ring Filler

In terms of design, one end of the stepped ring has been increased flanged, which not only increases the mechanical strength of the packing ring, but also increases the probability of orientation during packing placement due

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to the destruction of the symmetry of the packing structure. This changes the contact between the packing ring gaps during packing from linear contact to point contact. In this way, not only does it increase the gaps between the filler particles and reduce the resistance of three-dimensional passing through the filler layer, but these contact points can also facilitate the flow of liquid along the surface of the filler, gathering and dispersing points, which is conducive to improving the mass transfer efficiency of the filler.

The performance of ceramic stepped ring packing has been further improved compared to Bauer ring and Lassie ring. Its working temperature is generally above 1000 °C, which can meet 99% of tower equipment use. It is widely used in gas absorption, gas washing, filling liquid extraction, etc.

4. Main features of the product

- 1> The product shape has been improved on the basis of the Rasch and pall rings, effectively improving mass transfer efficiency.
- 2> High acid and alkali resistance, except for hydrofluoric acid, it is resistant to corrosion from various organic and inorganic acids, with an acid resistance of $\geq 99.9\%$ and an alkali resistance of $\geq 85\%$.
- 3> The usage temperature is high, reaching over 1000 °C.

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4> Mohua has high hardness and good wear resistance

5> Low water absorption and good density.

5. Product application

Applied to gas absorption and washing of various absorption towers, drying towers, cooling towers, etc., as well as extraction of filling liquids.

Do you want to find a professional supplier of ceramic stepped ring filler?

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