

Random Packing

• NAIKE-Ceramic Pall Ring : NK-CPR

Description

Ceramic Pall Ring is a kind of random packing further developed based on Raschig Ring, with two layers of windows opened along its tube wall. The outside diameter is equal to its height. For each layer, there are 5 ligules bending inward the axes of the ring. The open position for windows between the two layers is staggered oppositely.

Generally, the area for open windows occupies 30% of the total area of the tube wall. It helps vapor and liquid flow freely through these windows, making full use of the ring's inner surface to improve distribution of vapor-liquid.

With the characters of high mechanical strength, high chemical stability, and excellent heat endurance.

Ceramic Pall Ring can resist high temperature, acid (except HF), alkali, salt and various organic solvents. It is widely applied in various packing towers of desiccation, absorption, cooling, washing and regeneration in industries of petrochemical, chemical, metallurgy, gas and oxygen generation.

If ring's size is over 100mm, it is usually filled in column orderly. If its size is less than 90mm, pall ring is stacked in the column randomly.

Advantage of Ceramic Pall Ring

- High chemical stability
- High mechanical strength
- Excellent heat endurance

Application of Ceramic Pall Ring

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



Chemical Specification

SiO2	Al2O3	Fe2O3	Other
65-85%	15-30%	<=1.5%	5-15%

Physical Properties

Specific weight	water adsorption	Acid resistance	Crushing strength	Temperature	Moh's hardness	Ignition lost
2.5g/cm3	<=0.5%	>99.5%	>=130MPa	>1400℃	>=7	<=5.0%

Specification of Ceramic Pall Ring

Name	Size	Diameter (mm)	Weight(kg/m3)	Pieces(m3)	Surface Area(m2/m3)	Void(%)
Ceramic Pall Ring	ø25	25*25*3	680	36000	210	73
	ø38	38*38*4	630	12000	140	75
	ø50	50*50*5	580	4,900	100	78
	ø76	76*76*9	470	1,500	70	80