

## Ceramic saddles

### Ceramic packing



Ceramic saddles is one of the most used packing type in heat transfer applications and corrosive environments like drying towers and acid scrubbers. The ceramic saddles offer high resistance to thermal attack and thermal shock.

The point contacts between individual interacting packing pieces facilitate large cavity volumes and creates a fluid dynamic shape of the bed with coherent film spreading. Another advantage of the ceramic saddles in comparison with other ceramic packing is the greater specific surface area. Due to the high piece numbers and its high hydraulic capacity, this gives less pressure drop loss and provide excellent liquid recirculation.

To improve further efficiency and capacity, MTE developed the ceramic super saddles. These geometrical adjustment to the saddles increases the surface area contacts and decreases the pressure drop.

#### Applications

- » Sulfuric acid applications, drying towers
- » Acid scrubbers and stripping columns
- » Heat Transfer Media (RTO)

#### Benefits

- ✓ Higher capacity compared to rings
- ✓ Good thermal shock resistance for heat transfer applications
- ✓ High capacity version available
- ✓ Mechanical strong structure
- ✓ Good (corrosive) liquid handling performance

Listed below an overview of the sizes on stock and specifications. Sizes not mentioned in the tables, are available on request. The mixture of clay can be adjusted to special requirements or demands in case of need.

## Ceramic saddles

### Ceramic packing

Ceramic saddles specifications

Dimensions		Weight	Surface area dumped	Voidage dumped
<i>inch</i>	<i>mm</i>	<i>kg/m<sup>3</sup></i>	<i>m<sup>2</sup>/m<sup>3</sup></i>	<i>%</i>
½"	12	710 – 750	430	67
¾"	19	650 – 690	380	69
1"	25	630 – 670	260	70
1½"	38	570 – 610	200	72
2"	50	540 – 580	120	73
3"	75	510 - 550	92	75

Ceramic super saddles specifications

Dimensions		Weight	Surface area	Void fraction
<i>inch</i>	<i>mm</i>	<i>kg/m<sup>3</sup></i>	<i>m<sup>2</sup>/m<sup>3</sup></i>	<i>%</i>
1"	25	640 – 680	270	74
1½"	38	600 – 640	210	75
2"	50	520 – 560	140	76
3"	75	500 – 540	120	77

Other sizes are available on request. The mixture of clay can be adjusted to special requirements or demands in case of need.

For additional information, support or (special) requests, please contact our sales department.