

Ceramic tubes

Catalyst bed support media



Our experience with loading and unloading a significant number of reactor tubes, taught us that this is a long-lasting job. To decrease turnaround time, but also to prevent support materials and catalyst mixing due to vibrations, MTE developed the ceramic tubes, called HMMT.

The tubes give the same support as regular support materials like ceramic balls or rings, but only one custom-made piece is required as support. The outer diameter is perfectly designed to the inner diameter of the reactor tube with a very low tolerances of tenths of a millimeter and a perfect straightness for a perfect fit. The ceramic tubes have a fine mesh and can be used as support and hold-down media.

Applications

- » MDI reactors
- » Ethylene Oxide plants
- » Catalyst test or pilot plants

Benefits

- ✓ Easy and quick installation and removal
- ✓ Fine mesh suitable for small catalysts
- ✓ Perfect straightness
- ✓ Low pressure drop
- ✓ Excellent chemical resistance

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Chemical properties

Chemical component	Composition %
SiO ₂	50.15
Al ₂ O ₃	34.9
Fe ₂ O ₃	0.26
CaO	0.52
MgO	13.22
Na ₂ O	0.1
K ₂ O	0.1

Physical properties

Physical properties	
Cell density (cps)	400
Cell wall (mm)	0.21
Skin wall (mm)	0.5
Thermal expansion (20~800oC) (1x10-6 oC)	0.9373
Max. working temperature (oC)	1100
Material density (g/cm ³)	1.7
Compressive strength (Mpa)	26.7
Porosity (%)	34.97
Water absorption (%)	21.45
Catalyst poisons	No

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

The technical data are average values and approximate sizes
Subject to changes and improvements
No claims can be derived from the information given