

XSTONE

Catalyst Support Media

*Our "SUPPORT" includes the unsurpassed Quality
you expect!*



What is **XSTONE**?

Due to their unique physical and chemical properties ceramic materials are a common place in the Chemical, Refining and Petro-chemical industries. When it comes to catalyst support media the material and fabrication quality of the ceramic media must be of the highest quality. Beyond the cost of the support media or the cost of the catalyst is the cost of the process being down. M10 uses only the highest quality material and fabrication to ensure that the support media will outlast your catalyst. Here at M10 we've branded our industry specific material - **XSTONE**- Don't settle for anything less.



Typical Applications:

- Catalyst Support Media
 - Hydrotreaters
 - Catalytic Reactors
 - Hydrocracker
 - Reformers
 - Claus Reactors
 - Isomerization Units
 - Desulfurization Units
 - LNG Treaters
 - Descant Dryers
 - Converters
 - Shift Columns

Welcome to the world of **XSTONE** ! Ceramics designed for the chemical industry.

Chemical Composition	
Component	Content
SiO ₂	>69%
Al ₂ O ₃	17-23%
SiO ₂ + Al ₂ O ₃	>92%
Fe ₂ O ₃	<1.0%
CaO	<0.25%
MgO	<2.0%
K ₂ O + Na ₂ O	2-4%
Other	<1.0%

XSTONE was formulated with one thing in mind: performance. Optimized for the use in the harshest chemical environments. **XSTONE** is the perfect choice for the production of atalyst support media as well as ceramic saddles and Raschig rings. With thousands of installations globally, you'll see why **XSTONE** products are the preferred material in mass transfer and catalyst support media.

Physical Properties		
Index	Unit	Value
Porosity	Vol%	1
Specific Heat	KJ/Kg	840-900
Crush Strength	N/mm ²	390-420
Specific Gravity	g/cm ³	2.3-2.45
Acid Resistance	%	99.80
Firing Temperature	°C	1280-1320
Softening Point	°C	>1400
Water Absorption	%	<0.5
Thermal Expansion	10 ⁻⁶ mm/mm°C	4.7
Hardness	Mohr Scale	44,020



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Catalyst Support Media Technical Data

XSTONE Catalyst Support Media				
Size	Density kg/m ³	Surface Area m ² /m ³	Void Space %	Compressive Strength kgf
1/8"	1350	720	44	> 31
1/4"	1350	520	44	> 63
3/8"	1350	360	44	> 125
1/2"	1350	275	45	> 235
3/4"	1350	190	45	> 338
1"	1350	144	45	> 440
1 1/4"	1350	120	45	> 810
1 1/2"	1350	100	45	> 930
2"	1350	75	45	> 930

XSTONE Catalyst Support Media				
Size	Density lb/ft ³	Surface Area ft ² /ft ³	Void Space %	Compressive Strength lb
1/8"	84.2778	219.456	44	> 68
1/4"	84.2778	158.496	44	> 139
3/8"	84.2778	109.728	44	> 276
1/2"	84.2778	83.82	45	> 518
3/4"	84.2778	57.912	45	> 745
1"	84.2778	43.8912	45	> 970
1 1/4"	84.2778	36.576	45	> 1786
1 1/2"	84.2778	30.48	45	> 2050
2"	84.2778	22.86	45	> 2050

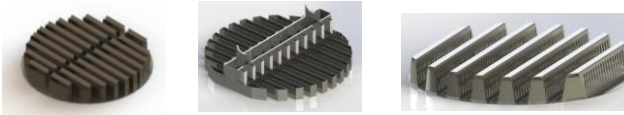


Mass Transfer Products

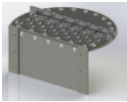
- Tower Packing



- Internals



- Trays



- **XSTONE** Catalyst Support Media



- Engineering

- Field Service Support



Contact US:

14069 W Horseshoe Bend Conroe, TX 77384 Office: 281-350-1200
Email: info@M10PE.com
Website: www.M10PE.com

