

Reliable. Readily available. Priced right.

Denstone® 99 high-alumina support media

Technically Superior

Saint-Gobain NorPro set the industry standard for ceramic media with the introduction of Denstone® support media more than 60 years ago. NorPro® engineers and ceramists again demonstrated their unrivaled technical expertise with the development of high-alumina Denstone® 99 media. Since then, the industry has come to recognize Denstone® 99 media as the most reliable product for applications that demand a chemically inert body with excellent thermo-mechanical shock resistance properties. Denstone® 99 media are used in installations worldwide for heat transfer, as well as for the mechanical support and hold down of fixed catalyst beds.

Global Resources

Saint-Gobain NorPro is ready, willing and able to respond quickly to your media requirements. Denstone® 99 media are stocked in significant quantities to meet the growing demands of our customers. With locations strategically positioned in North America, Europe and Asia, your order is just a phone call away from being processed and shipped.

For quick shipment or pricing, call:

- North America +1-330-673-5860
- Europe +49-6435-9657-0
- Asia +65-63-37-45-30

Typical Properties

Maximum Operating Temperature
1650° C (3002° F)

Nominal Size

mm	in.
3	1/8
6	1/4
10	3/8
13	1/2
19	3/4
25	1
38	1-1/2
50	2
75	3

NEW 3-inch
Size Available

Typical Chemical Composition

	min %	max %
SiO ₂	–	0.2
Al ₂ O ₃	99.0	–
Fe ₂ O ₃	–	0.2
TiO ₂	–	0.57
CaO	–	0.1
MgO	–	0.1
Na ₂ O	–	0.25
K ₂ O	–	0.1

Minimum Crush Strength Data

Nominal Size		Minimum	
mm	in.	kg	lb.
3	1/8	50	110
6	1/4	100	220
10	3/8	200	440
13	1/2	600	1322
19	3/4	1000	2202
25	1	1400	3083
38	1-1/2	1800	3965
50	2	2200	4846
75	3	2200	4846

Reliability in Demanding Conditions

Denstone® 99 support media are characterized by their low silica content – less than 0.2%. This high degree of purity makes Denstone® 99 media ideal for high-temperature systems with an influx of steam, such as secondary reformers in ammonia plants, where leached silica might coat downstream equipment or poison the catalyst. The superior chemical resistance of Denstone® 99 media makes it suitable for reactive olefin services. The special formulation of Denstone® 99 media also provides maximum resistance to thermal shock and erosion. In fixed-bed catalyst reactors, its monolithic structure eliminates in-service spalling and delamination and prevents the incidence of fine chips or splinters that may plug the catalyst bed or interfere with process mechanisms. The product's high density and thermal conductivity make it the media of choice for heat transfer.

Additional Denstone® Product Options

Saint-Gobain NorPro is poised to provide higher quality, more technically advanced products than our competitors. Our commitment to innovation and reliability is evident in all products bearing the Denstone® name:

- **Denstone® 57 support media**, the industry standard for fixed-bed catalyst support systems.

- **Denstone® 2000 support media**, the ultimate support and hold-down media developed to withstand rapid depressurization and thermal shock.
- **Denstone® deltaP®**, the most recent advance in bed support media innovation, provides for improved operating performance and cost-saving bottom-line results through reduced pressure drop and fewer layers of media.

We Demand Perfection

Saint-Gobain NorPro is an overachiever when it comes to process control. NorPro® technical and production personnel monitor raw material quality and every step of the manufacturing process to ensure adherence to tightly controlled size and composition specifications.

We invite you to compare our products' price and physical characteristics to any other. We are confident that you will agree: The benefits of Denstone® media translate into long life and optimum performance.



www.denstone.com

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