

Denstone® 57 Support Balls

Tried & True, the Industry Standard

The industry standard for over 70 years, Saint-Gobain NorPro's Denstone® 57 support media is the world's first choice in bed support. Denstone 57 media's consistent and unparalleled reliability as support for natural gas drying and treating, refinery hydroprocessing, and petrochemical processing and purification makes it the most widely used support media in the world.

At Saint-Gobain NorPro, we understand the significant investment you have in catalyst for your reactor. Denstone® 57 support media is made with high quality raw materials and controlled processes, providing you with a consistent, reliable product. This gives you the peace of mind that your catalyst is safe from common problems associated with low quality support media. The high quality of our support media allows your catalyst to achieve optimum performance and avoid premature replacement. You can trust that the seamless monolithic structure of Denstone 57 media will not have adverse effects on your operating performance because of chips, splits, spalls, cracks, or dust.

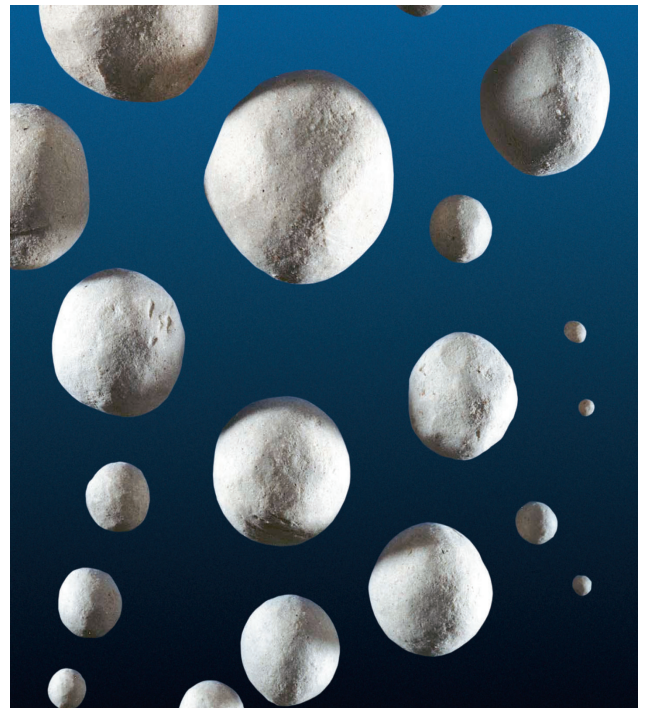
Denstone® 57 support media benefits include:

- **Provide high thermal shock resistance** - Denstone 57 spheres retain their physical properties after being exposed to thermal cycling.
- **Prevent poisoning of your catalyst** - Denstone 57 spheres are free of sulfur, boron, and other common catalytic poisons and have a leachable iron content of less than 0.1%.
- **Prevent contamination of your catalyst** - Denstone 57 spheres have maximum resistance to attrition, minimizing the risk of contamination of your catalyst bed.
- **Prevent plugging of your bed** - Denstone 57 spheres' dependable structure will remain intact and will prevent fouling and plugging of the catalyst bed while keeping pressure drop low and the efficiency of your unit high.

When you need support media, choose Denstone® 57 bed support media - the optimum choice for reliable, worry free performance.

(continued)

Saint-Gobain NorPro
DENSTONE® 57 Support Balls



Denstone® 57 Support Balls Typical Properties

Physical Properties

Nominal Size		Diameter		Crush Strength			Water Absorption	Bulk Density*			
		(mm)		(lb)	(kg)	(N)		(kg/m ³)		(lb/ft ³)	
mm	in	min	max	min	min	min		min	max	min	max
3	1/8	2.8	4.3	50	22.7	223	≤ 3.0%	1282	1426	80	89
6	1/4	6.1	8.1	120	55	540	≤ 1.0%	1282	1426	80	89
10	3/8	8.4	10.9	200	90	883	≤ 0.4%	1282	1426	80	89
13	1/2	11.4	14.5	370	170	1668	≤ 0.4%	1282	1426	80	89
16	5/8	14.5	17.5	500	230	2256	≤ 0.4%	1282	1426	80	89
19	3/4	17.8	22.4	950	430	4218	≤ 0.4%	1250	1394	78	87
25	1	23.6	29.2	1400	635	6229	≤ 0.4%	1250	1394	78	87
32	1-1/4	30.0	35.1	2000	900	8829	≤ 0.4%	1250	1394	78	87
38	1-1/2	35.1	40.1	2000	900	8829	≤ 0.4%	1250	1394	78	87
50	2	48.3	55.9	2000	900	8829	≤ 0.4%	1250	1394	78	87

*bulk density will vary based on manufacturing location

Chemical Properties

	min %	max %
SiO ₂	64.0	75.0
Al ₂ O ₃	19.0	26.0
Fe ₂ O ₃	-	1.7
TiO ₂	-	1.5
CaO	-	0.7
MgO	-	0.5
Na ₂ O	-	2.9
K ₂ O	-	4.8
Al ₂ O ₃ + SiO ₂	90.0	96.0

Other Properties

Leachable Iron	≤ 0.1%
Sphericity	< 1.25
Max Operating Temperature	1000°C
MOHS Hardness	> 6.5
Attrition (weight loss)	≤ 1.0%

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