

Procedures/Recommendations for Handling, Storage, Sizing and Installation of Denstone® Ceramic Spherical Bed Support Media

Handling

Appropriate pallet handling equipment should be utilized when moving pallets.

Storage

Pallets containing Denstone® media can be stacked no more than two high. While Denstone media has an extended shelf life, due to packaging, it should be stored in a dry area, out of direct sunlight.

Sizing

Denstone® spherical support media is graded by utilizing the 2X concept. The support media should be no greater than 2X the diameter of the catalyst/adsorbent and/or media being supported. For example, if supporting 1.6 mm (1/16") diameter catalyst, the first layer of Denstone support media should be no greater than 3 mm (1/8"). The subsequent layer of support media should be no greater than 6 mm (1/4") in diameter. Subsequent layers are installed using the same 2X sizing concept. It is recommended to install a minimum depth of 100 mm (4") for each layer of Denstone spherical support media required.

Denstone® support media is available in the following sizes:

- 3 mm (1/8")
- 6 mm (1/4")
- 10 mm (3/8")
- 13 mm (1/2")
- 16 mm (5/8")
- 19 mm (3/4")
- 25 mm (1")
- 38 mm (1-1/2")
- 50 mm (2")

Installation

Prior to loading Denstone® support media, the unit should be inspected and any foreign material should be removed. Grid supports, collectors, or diffusers should be inspected to make certain they are firmly secured. Inspect for any gaps or holes and repair before loading any support media. As well, any particles or fines lodged in the grid or support screen should be removed to avoid abnormal pressure drop in the unit or channeling of the gas stream.

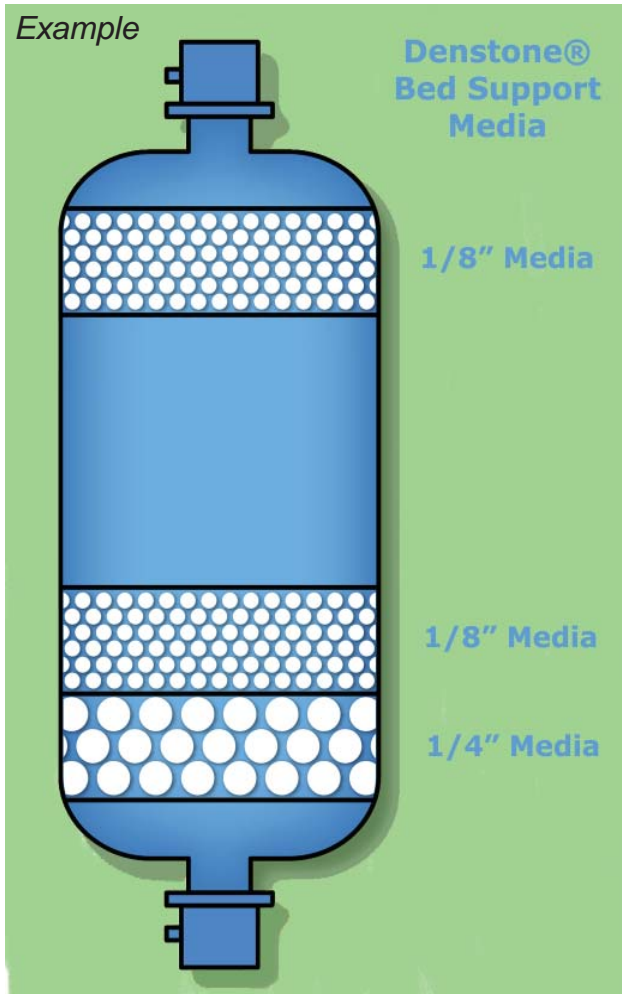
The support media may be loaded by means of buckets, chutes, socks, or telescopic sleeves. Free fall of the media should be limited to less than two feet. As loading continues, the media should be periodically leveled for even distribution.

Physical handling of the support media during loading should be kept to a minimum. Inspection should be conducted after the first ten to fifteen percent of the support media has been loaded to verify that no breakage of spheres has occurred.

Safety

Always wear proper personal protective equipment, follow good practice, and observe local laws in handling, use, and disposal of support media.

Example



Saint-Gobain NorPro

| | |
|---------------------------|--------------------|
| North America: | +1 330 677 7228 |
| Europe, N. Africa: | +49 6435 9657 0 |
| South America: | +58 (212) 793 1911 |
| Mid. East, India: | +971 (50) 6515205 |
| China: | +86 21 63615212 |
| Japan: | +81 3 3263 0334 |

www.denstone.com

**Denstone® Support Media --
Always Reliable Support**

© Saint-Gobain NorPro, Stow, OH 2008

Saint-Gobain, from time-to-time, renders engineering advices upon customer request. Saint-Gobain cannot and does not guarantee that these advices, given gratuitously and on a good will basis, are necessarily one-hundred percent accurate. In no event do the advices constitute a warranty of any kind.