

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

Handling

Appropriate pallet handling equipment should be utilized when moving pallets.

Storage

Pallets containing Denstone® deltaP™ 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

Traditional support media requires up to four sizes being loaded into the vessel. Sizing is simplified since with Denstone® deltaP™, only two sizes are necessary, and in some cases only one size is required. For replacement purposes, use the following as a guideline for substituting traditional support media with Denstone deltaP support media.

- Denstone deltaP media, **Size P1**, replaces support media 3 mm - 13 mm (1/8" - 1/2")
- Denstone deltaP media, **Size P2**, replaces support media 19 mm - 13 mm (3/4" - 2")

The formula for determining support media size based on catalyst size becomes simplified when using Denstone deltaP spheres. Denstone deltaP P1-size support media is the size most often required for supporting the catalyst. It is recommended to install a minimum depth of 100 mm (4") of Denstone deltaP P1-size media. If a second layer of bed support media is necessary, use Denstone deltaP P2-size media.

Installation

Prior to loading Denstone® deltaP™ 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.

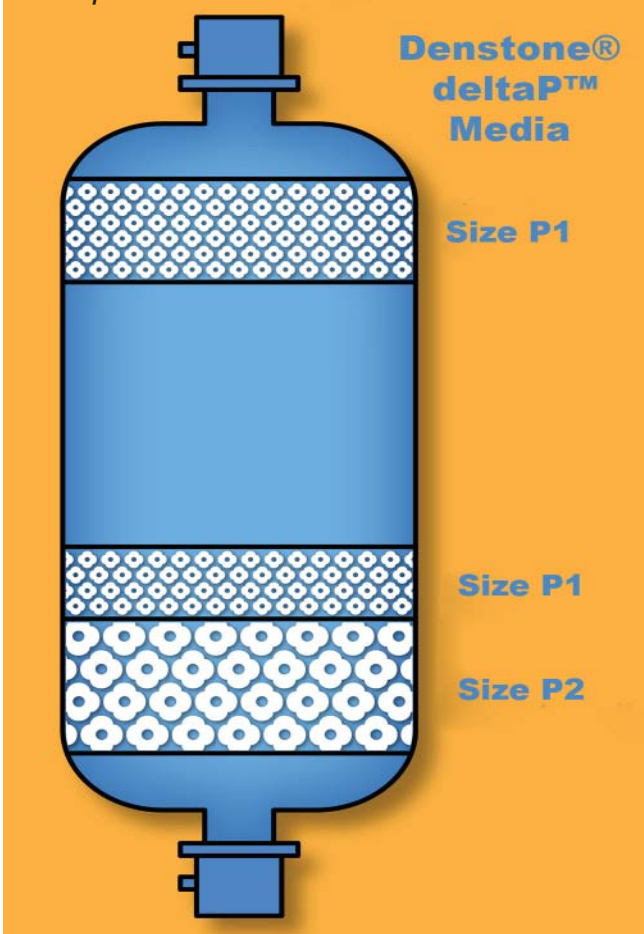
The support media may be loaded by means of buckets, chutes, socks, or telescopic sleeves. Free fall of the media should be limited to less than two feet. As loading continues, the media should be periodically leveled for even distribution.

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



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

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