DENSTONE®
SUPPORT MEDIA

Denstone® deltaP® Support Media

Denstone® – Reshaping How You Think About Support Media

Denstone® deltaP® is the revolutionary bed support media invented by Saint-Gobain NorPro to provide additional value over traditional spheres in fixed bed catalyst applications for the refining, petrochemical and gas processing industries. Denstone deltaP shaped support media offers such benefits as reduced fill cost, maintaining a lower pressure drop and potentially reduced volume of total support media, allowing you to add more adsorbent media or catalyst to your reactor.

Reduce Fill Cost and Volume of Support Media

Denstone® deltaP® support media is engineered to need only two layers of media, versus up to four layers with spherical media. When used to replace spherical support media in your reactor, Denstone deltaP media eliminates the need for costly 3mm (1/8”) and 6mm (1/4”) media that have a low void fraction resulting in high pressure drop across the support media layers. As a result, Denstone deltaP support media can eliminate the more costly small diameter spherical support media as well as reduce the total volume of support media needed in your reactor.

With Denstone® deltaP® engineered shape support media, the process of inventory, storage and installation is simplified. Only two sizes, and in some cases only one, of Denstone deltaP media are required where a traditional reactor loading might consist of up to four layers of different support media sizes. This reduced number of layers could lead to a decrease in the total support media volume in the reactor, potentially allowing more catalyst volume in some applications.

- Denstone deltaP media Size P1 typically replaces the top layer spherical media
- Denstone deltaP media Size P2 typically replaces the remaining spherical media

Saint-Gobain NorPro

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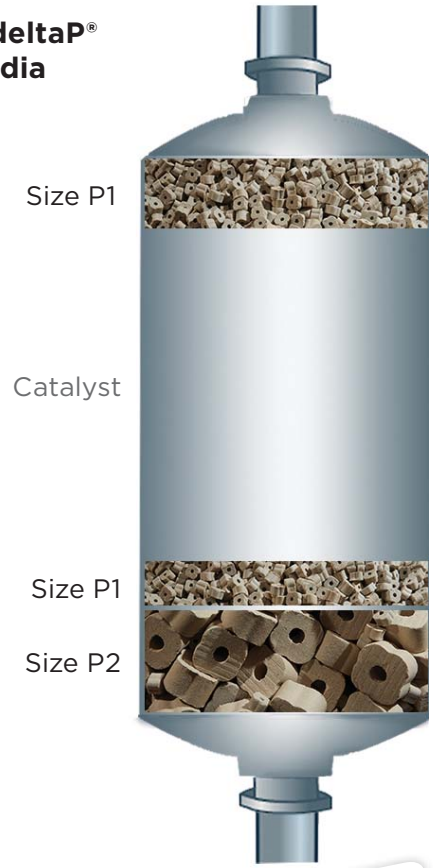

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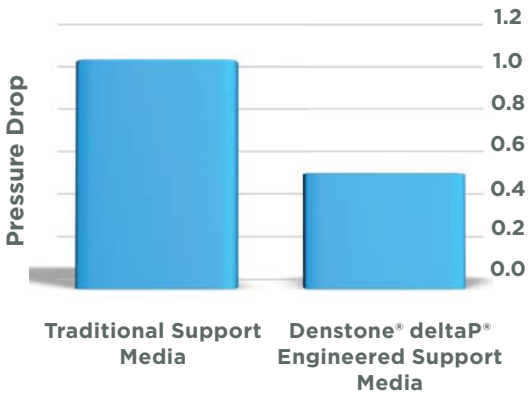
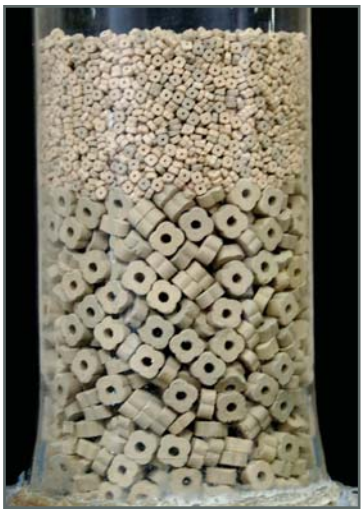
Lower Pressure Drop

The unique engineered shape of Denstone® deltaP® media improves your operational performance by reducing your pressure drop. Simulations and testing show that utilizing Denstone deltaP media allows you to maintain a lower pressure drop, improving your operations. On average there is a 50% pressure drop decrease across the support bed media when utilizing Denstone® deltaP vs. traditional spheres.

Denstone® deltaP® Media Outperforms Spherical Support Media 2:1



To see how pressure drop works, visit the **«Pressure Drop Estimator»** on our website.



Testing Confirms No Migration Effect

Extensive testing proves that the Denstone® deltaP® support media completely retains all the catalyst particles with minimal migration into or through the support media.

Laboratory reactor simulations confirm that the Denstone® deltaP® media P1 size, with a typical diameter of 13mm, holds a 1/20" catalyst with no migration into the support media bed. Compared with the traditional 3mm (1/8") spherical support media for this catalyst, Denstone deltaP P1 media only requires one additional layer of Denstone deltaP P2 media to keep the support media from nesting and increasing pressure drop.

Denstone® deltaP® Support Media Migration Testing Video

Ask about our video on Denstone® deltaP® support media on **«Performance Migration Testing»** or visit our website.

Start improving your overall operating performance and bottom line results today with Denstone® deltaP®, the newest technological breakthrough from the name you've trusted for over 70 years.

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