

Porous top layer media

Catalyst top layer media



Increasing the inner surface area and therefore creating more void space is primarily the reason for developing alumina based porous metals. The top layer media which protects the catalyst, has the capacity to capture catalyst poison, where standard inert top layers do not apply for applications like hydrodesulfurization and naphtha hydrocracking. With its ability to reduce pressure drop and a very high void fraction, the porous top layer media is the solution for a longer lasting extension of precious metals in the catalyst.

Applications

- » Naphtha Hydrotreating (NHT)
- » Distillate Hydrocracker (DHC)
- » Hydrodesulfurization (DHS)
- » Hydrodenitrogenation (HDN)

Benefits

- ✓ Reduce pressure drop built-up
- ✓ Capture particles from feed stream
- ✓ Trap soluble iron
- ✓ Capture of catalyst poison

Listed below an overview of the sizes on stock and specifications, sizes not mentioned in the tables are available on request. The mixture of clay can be adjusted to special requirements or demands in case of need.

Macro Por® high porosity top layer rings

The Macro Por® high porosity top layer rings are being used to protect the catalyst from fouling and especially designed and developed to extend the lifetime cycle of catalysts. The rings reduce the pressure drop and contain a high void fraction. The Macro Por® rings traps particulates which are coming with the hydrocarbon feedstocks. With its large pores the Macro Por® high porosity top layer rings is highly recommended in hydrotreating and hydrocracking applications.



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Specifications

Bulk	Length	Bulk density	Average side crushing strength
<i>mm</i>	<i>mm</i>	<i>kg/m³</i>	<i>N/pc³</i>
6	6 – 8	500	40
8	8 – 10	500	50

Rest-O-Por® high porosity top layer ring

The Rest-O-Por® high porosity top layer ring is a top layer media designed for each unique application which the customer can require. Due to each different use of the Rest-O-Por® high porosity top layer rings, MTE developed a wide range of Rest-O-Por® top layers which can serve any request. Listed below a small overview of our stock.



Specifications

Dimensions	Bulk density	Free volume	Piece number	Average strength
<i>mm</i>	<i>kg/m³</i>	<i>%</i>	<i>pcs/ m³</i>	<i>N</i>
3	550	49	16.400.000	20
5	520	52	5.010.000	40
6	500	53	3.300.000	40
8	500	55	1.270.000	50
10	500	56	708.300	55

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High porosity spheres

MTE produces high porosity sphere shapes. The spheres of pure alumina give a very high surface area combined with an excellent crushing strength. This makes this media very suitable to use the spheres as a top layer media, catalyst carrier or to trap particulates for smaller sizes or some metals that could physically be trapped in smaller pores.



Specifications

Dimensions	Bulk density	Piece number	Average strength
<i>mm</i>	<i>kg/m³</i>	<i>pcs/m³</i>	<i>N</i>
3	540	47.000.000	20
6	540	5.237.000	50
10	520	1.190.000	100
12	520	682.000	120

For additional technical data, support or special requests, please contact our sales department.