



# EXACTPORE™ 3D Filters

Customizable 3D Filters for unmatched reliability and consistency



**ASKCHEMICALS**  
We advance your casting



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## Customizable 3D Filters for unmatched reliability and consistency

ASK Chemicals is at the forefront of casting innovation with progressive technology that drives our customer base forward. Our new EXACTPORE™ 3D Filters are our latest advancement that achieves exactly this - A customizable feeding system with reliability and consistency.

Metal cleanliness is a prominent requirement within the investment casting industry. This, of course, is achieved in-part via metal filtration by utilizing reticulated foam filters to capture unwanted inclusions (i.e. impurities). Unfortunately, achieving the highest degree of purity comes at a risk. Standard filters are prone to breakage due to their unsupported structure that are formed during the cut-to-shape process. Once coated with ceramic, sintered bits have been known to break-off during the casting process. This invariably can compromise metal integrity and increase the likelihood of filter bits, or inclusions in castings.

EXACTPORE™ 3D Filters protect against filter bits by utilizing an engineered structural design capable of limitless shapes. In addition, this optimized structure offers nearly perfect pore sizes (e.g. 10 ppi). Before, this was not possible due to the variability inherent with reticulated foam filters. Now, any pore size - even untraditional sizes - can be used to ensure the most consistent flow characteristics. EXACTPORE™ 3D Filters are produced using our world class operation with fully customizable options.

## Benefits

- Consistent Flowrates & Reduced Filter Bits
- 100% Engineered Designs & Structure
- Increased flow rates / capacities
- Exact Pore Size Requirements
- Customizable w/ First Class Manufacturing

### Eliminating Ceramic Inclusions

Ceramic inclusions - caused by unsupported tendrils left over from the manufacturing process are a major drawback to reticulated foam filters. 3D printed filters, however, promote fully supported structures that nearly eliminate the possibility of filter inclusions, or bits. This benefit, alongside a highly optimized web design, makes our 3D Filters the ideal filtering method for the investment casting industry.



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