



Press release

Powerful, safe and simply efficient

ASK Chemicals launches innovative EXACTPORE 3D filter generation

Hilden/Germany, January 30, 2019 – With its innovative EXACTPORE 3D filters, ASK Chemicals offers investment casters as well as iron and steel foundries new and more efficient filtration options for the highest casting quality. Thanks to their particularly sophisticated and well thought-through design, EXACTPORE 3D filters provide the highest structural integrity and thus safety and efficiency in use.

Metal purity is one of the most important requirements in the foundry industry. Best practice in the field of molten metal filtration is the use of sintered ceramic foam filters. But the structure of the filter foams in particular means that this form of filtration also has its limits. During the ceramic coating and sintering process, tiny particles may form inside the filter structure, which are only slightly sintered with the base material. Flow through the filter can cause these particles to detach, which impairs the purity of the melt and can lead to inclusions in the casting.

The superior structural integrity of EXACTPORE 3D filters ensures the absence of loose particles and thus prevents the contamination of the melt by so-called filter bits and time-consuming reworking.

A further key advantage of the new filter generation is its higher flow capacity. Due to the uniformity of the pore design and the structurally consistent geometry, the flow capacity of the EXACTPORE 3D filters is significantly higher than sintered ceramic foam filters with the same filter and pore size and thus offers foundries an opportunity to further increase manufacturing productivity.

The uniformity of the pore design and the structural integrity of the new filters also significantly reduces turbulence compared to conventional solutions and greatly protects against reoxidation caused by entrained air. In fact, hardly any impurities get into the mold, which leads to less reworking, improved surface quality and lower rejection rates and ultimately increases profitability.

"Finally, our new filters are manufactured in such a way that the design possibilities are virtually limitless," adds Bob Gage, Market Manager Filters at ASK Chemicals, as a further advantage of the new EXACTPORE 3D filter generation. "With our new filters there are almost no limitations as to what we can offer our customers in terms of pore design: We can produce almost any pore size – even unconventional ones – in order to guarantee the best possible filter quality with constant flow properties".

ASK Chemicals will be presenting this solution as well as other innovative and equally efficiency-enhancing solutions from June 25 to 29, 2019 at GIFA in Düsseldorf in Hall 12, Stand A22.

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Images for the press release

EXACTPORE™
3D filters for
unmatched reliability
and consistency



 <p>Improved flow capacities</p>	 <p>Reduction of filter bits</p>	 <p>Laminar flow</p>
 <p>Customizable designs</p>	 <p>Less scrap & improved surface quality</p>	 <p>Consistent pore sizes</p>

Picture 1: Advantages of the new EXACTPORE 3D filters



About ASK Chemicals

ASK Chemicals is one of the world's largest suppliers of foundry chemicals and consumables, with a comprehensive product and service portfolio of binders, coatings, feeders, filters, and release agents, as well as metallurgical products including inoculants, Mg treatment, and inoculation wires and master alloys for iron casting. Core manufacturing and development of prototypes, as well as a broad offer of simulation services, complete the range of supply.

With research and development in Europe, America, and Asia, ASK Chemicals sees itself as the driving force behind industry-specific innovations and is committed to offering customers a consistently high level of quality. Flexibility, quickness, quality, and sustainability, as well as cost-effective products and services, are of key importance.

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