



Press release

Well prepared for new challenges

Efficient MIRATEC TC technology shows best performance in turbocharger casting

Hilden/Germany, December 18, 2018 – To meet increasingly stringent carbon regulations, a rethinking of drive concepts is required for the long-term. Until e-mobility can be used across the board, however, "conventional" drive technology will be further downsized in conjunction with ever more powerful turbocharger technology in order to be able to satisfy the aforementioned requirements. To withstand higher exhaust gas temperatures, for example, turbocharger components are now cast in steel, a process which places new demands on coating technology.

In steel casting, it is state-of-the-art to use zirconium-containing coatings, due mainly to the good refractory properties of zirconium. However, against the background of the rising zirconium prices, it makes sense to consider new solutions.

ASK Chemicals Research & Development has developed a new coating technology for turbocharger series casting, not only to meet the new requirement profile for turbocharger component casting, but also as a response to rising zirconium prices. MIRATEC TC is a zirconium-free coating technology, which nevertheless performs with excellent thermal stability. The technology gives the user more independence from rising raw material prices while benefiting from a product that is in no way inferior to the performance of zirconium coatings.

Due to the significantly lower density of the zirconium-free coating compared to zirconium-containing products, the MIRATEC TC series has a wider range. In other words, in addition to independence from high raw material prices, MIRATEC TC technology also provides the user with an extremely efficient coating solution. The new technology shows good suspension behavior in the dipping plant and adapted (short) cycle times in the application. Relatively short drying times are typical for the products. Thanks to consistent further development, series applications show a significant reduction in gas and surface defects as well as safety in achieving the required surface values.

"It is our task as a partner and supplier to offer our customers sustainable solutions. This includes solutions for new materials, but also products that are viable against the background of constantly rising raw material prices. Of course, ASK Chemicals always keeps an eye on the efficiency of the solution," sums up Christian Koch, Technical Product Manager for coatings.

ASK Chemicals is presenting this and other efficiency enhancing solutions at the GIFA in Düsseldorf from June 25th to 29th, 2019 in Hall 12, Stand A22.

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Images for the press release

Best performance in turbocharger casting – zirconium-free coating **MIRATEC™ TC**



 <p>Less dependent on raw material prices</p>	 <p>Reduction of casting defects</p>	 <p>Short drying times</p>
 <p>Excellent thermostability</p>	 <p>High surface quality</p>	 <p>Good suspension behaviour in the dipping plant</p>

Picture 1: Advantages of MIRATEC TC technology



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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