



Press Release

New developments in INOTEC™ technology

Remarkable casting advantages of the new INOTEC™ generation

Hilden, Jan. 26, 2015 – ASK Chemicals has succeeded in further enhancing its inorganic INOTEC™ technology through its new INOTEC™ TC 5000 and INOTEC™ HS 3000 products. The new developments lead in particular to improved shakeout and higher moisture stability of the cores.

The mounting advantages of using INOTEC™ technology for the foundry industry are not only odorless core production and odor-reduced casting, but also the significantly lower cleaning required for machines and tools, leading to productivity increases for foundries. Inorganic binder systems also offer casting advantages that result in stronger components.

Improved shakeout and surface quality

The newly developed promoter INOTEC™ TC 5000 complements the positive qualities of the previous generation in regard to penetration-free and sand-adhesion-free casting surfaces, and in terms of improved collapsibility properties in light metal casting (Figure 1), improved immediate strength levels, as well as increased storage life of the cores. Previously, the decoring of cast parts manufactured with inorganic binders presented a challenge in relation to water jackets, especially if the gutting machine had limited degrees of freedom. INOTEC™ TC 5000 now enables even complex and delicate water jacket cores to be safely shaken out after casting. The system is 100% inorganic and leaves no residual condensate deposits in the tooling, nor causes any smoke to form during the casting process.

Enhanced storage life and moisture stability

Likewise, the storage life of cores manufactured using inorganic binders previously posed a challenge, especially on hot summer days with high humidity and a high ambient temperature. Now, the new binder INOTEC™ HS 3000 significantly improves the moisture stability of the inorganically bound cores (Figure 2). This in turn makes it possible to manufacture stable cores coated with a water-based coating, which also makes the INOTEC™ binder system interesting for iron casting.

ASK Chemicals will be presenting these and other solutions at the GIFA in Duesseldorf from June 16 – 20, 2015 in Hall 12, Stand A22.

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Images for press release

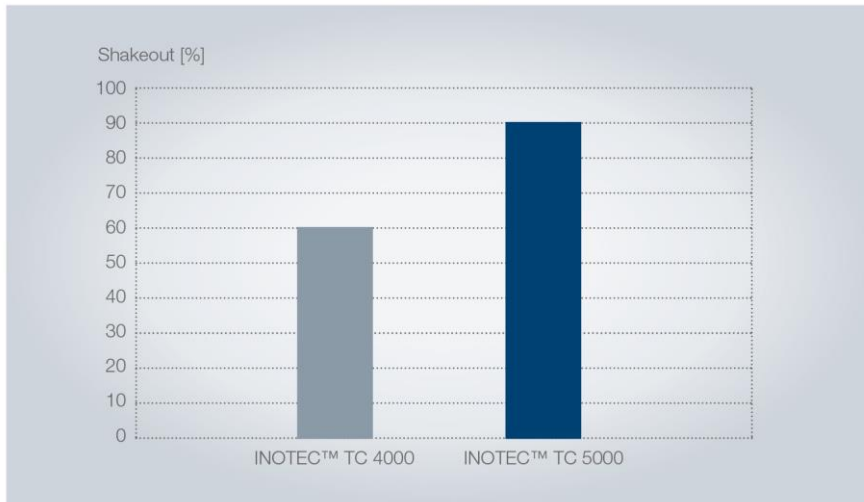


Figure 1: Decoring test: The INOTEC™ promoter TC 5000 achieves a considerable improvement in shakeout

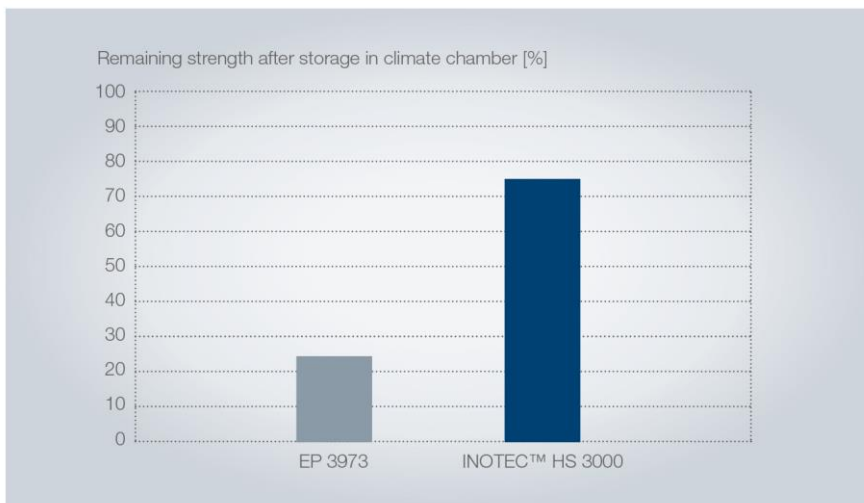


Figure 2: Sustained strength after storage in the climatic test cabinet. The binder INOTECTM HS 3000 significantly improves storage life



About ASK Chemicals

ASK Chemicals is one of the world's largest suppliers of foundry chemicals, 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.

ASK Chemicals is represented in 25 countries with 30 sites, 20 of which operate their own production, and employs approx. 1,700 people worldwide. 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.

Contacts for Journalists

Company contact

ASK Chemicals
Ms. Verena Sander
Manager
Corporate Marketing & Communications
Reisholzstraße 16-18
40721 Hilden, Germany

Tel. +49 211-71103-0
Fax +49 211-71103-70

www.ask-chemicals.com
info@ask-chemicals.com

Press contact

ProTEC Marketing
Ms. Andrea B. Ferkinghoff
Managing Director
Schwanfelder Straße 8
97241 Bergtheim/Würzburg
Germany

Tel. +49 9384-88212-21
Fax +49 9305-88212-29

www.protec-marketing.de
Ferkinghoff@protec-marketing.de