Press Release

No toxicity, easy adaptation, excellent performance

A new generation of Furan resins

Hilden, April 16, 2013 – Furan resins with a furfuryl alcohol content of over 25% (monomeric) are classified as toxic according to the CLP Regulation, which is in force throughout the EU. This has significant consequences for warehousing and the handling of these products. The foundryman is therefore left with the choice of either continuing to work with standard furan resins or switching to alternative systems.

ASK Chemicals has succeeded in developing a new generation of furan resins, whose performance is largely comparable to that of standard furan resins, avoiding the risks of a system conversion right from the start. MAGNASET™ binders are non-toxic, have very good molding properties and produce excellent casting surface finishes. Similar to standard furan resins, the area of application is determined by the composition and the chemical characteristics.

MAGNASET™ binders cover the broad range of different types of casting. MAGNASET™ HP 101, due to its low nitrogen content and good thermal stability, is especially suited to ductile iron and cast steel. MAGNASET™ HP 301, by contrast, is an “all-rounder” for small and medium-sized castings (Figure 1). To cure MAGNASET™ resins, PTS-containing acids can be used, such as the products Härter GS II or Härter Rapid 03 (both hardeners).

The lower monomeric furfuryl alcohol content in MAGNASET™ resins can reduce furfuryl alcohol emission at the workplace by up to 80% (Figure 2).

Ultimately, the new resin qualities with less than 25% furfuryl alcohol as a monomer can be adapted to existing processing parameters fairly straightforwardly and used without making changes to the furan resin technology.

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Images for the press release

Figure 1: MAGNASET™ binders cover the broad range of different types of casting.

Figure 2: Comparision of furfuryl alcohol emissions.
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, 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. 1,800 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.

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