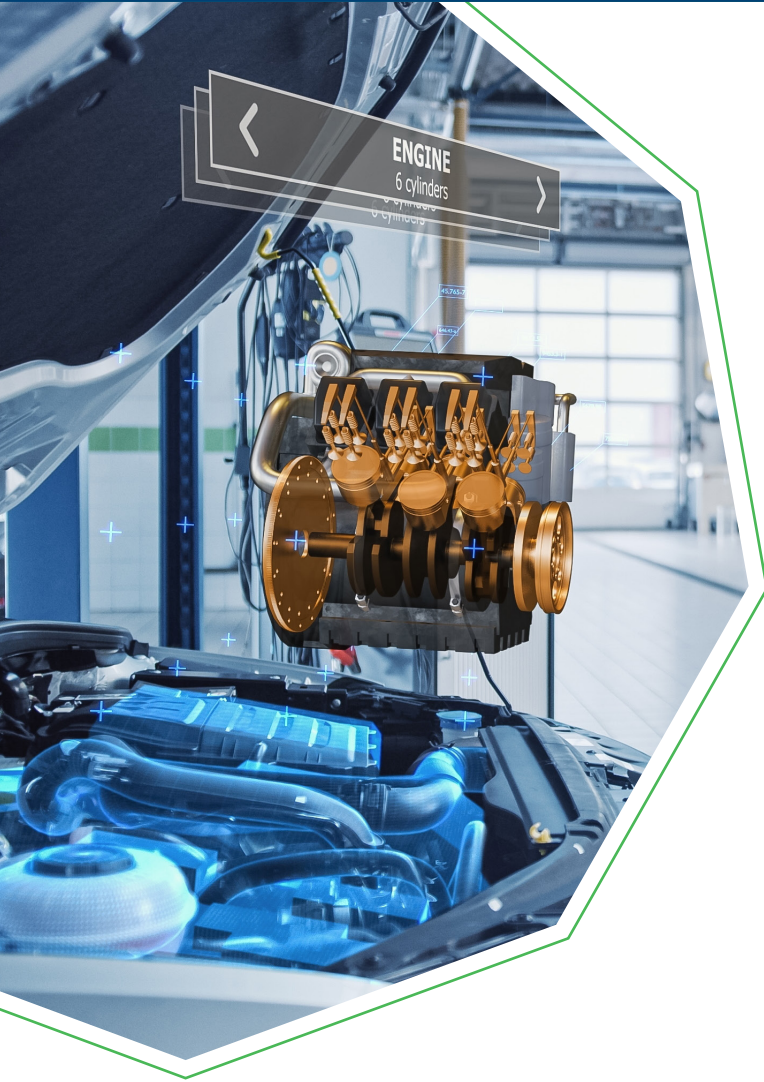


ECOCURE™ SILVER



EMISSION REDUCTION WITH NEW COLD-BOX BINDER ECOCURE™ SILVER AND ECOCURE™ SILVER T

Smoke and emission reduction in aluminum foundries are key to protect both the health of employees and the environment.

The new cold box binder ECOCURE™ SILVER fully meets the technological requirement profile of aluminum permanent mold casting, while at the same time reducing emissions and smoke.

ECOCURE™ SILVER is based on the proven ECOCURE™ BLUE technology.

Various field tests and customer applications have shown an additional advantage: ECOCURE™ SILVER is also suitable for use in iron and steel casting.

TECHNOLOGICAL ADVANTAGES

- Higher immediate strengths for shorter cycle times
- Binder and amine reduction
 - Longer cleaning intervals
 - Less cleaning effort
 - Less condensate
 - Better core decomposition
- Minimal gas formation
 - Less risk of casting defect



ECOCURE™
SILVER

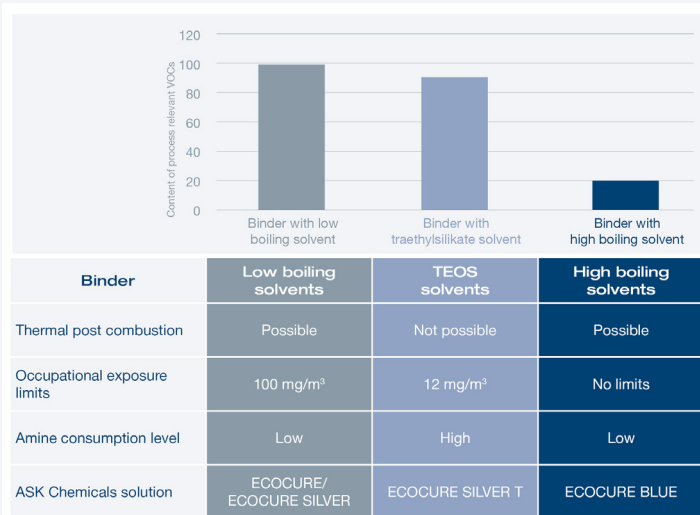


Figure 1: Comparison of binder technology in relation to the content of process-relevant VOCs.

Emission reduction with ECOCURE™ SILVER and SILVER T

ECOCURE™ SILVER is characterized by its low BTX emissions during casting. Compared to conventional PUNB cold box binders, the new innovation for aluminum die casting scores particularly well in terms of low air emissions, as well as free phenol (< 1 %) and free formaldehyde (< 0.1 %) content. Employees on the casting line are thus exposed to lower levels of smoke and emissions compared to other binders (Fig. 2).

Mold availability is crucial for foundry productivity. Cleaning and maintenance intervals thus must be kept as short as possible. In the development of the new ECOCURE™ SILVER binder, special attention was therefore paid to the choice of a suitable solvent to prevent condensation.

ECOCURE™ SILVER also impresses with its technical properties and advantages. In addition to excellent processing times, the binder offers very high instant strengths and thus enables short cycle times. The amine requirement of the new system is low. Thanks to special formulation of ECOCURE™ SILVER, gas formation is minimal, reducing the risk of related defects. Last but not least, castings made with ECOCURE™ SILVER are characterized by very high dimensional accuracy.

Different solutions of leading technologies ECOCURE™ SILVER and SILVER T

ECOCURE™ SILVER and ECOCURE™ SILVER T differ in the solvent used. ECOCURE™ SILVER is based on aromatics, ECOCURE™ SILVER T on TEOS. This TEOS has different advantages. ECOCURE™ SILVER is characterized by better strength and better occupational exposure limits. ECOCURE™ SILVER T develops less odor and gas during use. With both systems, it is possible to reduce binder and amine, with all the advantages that this brings.

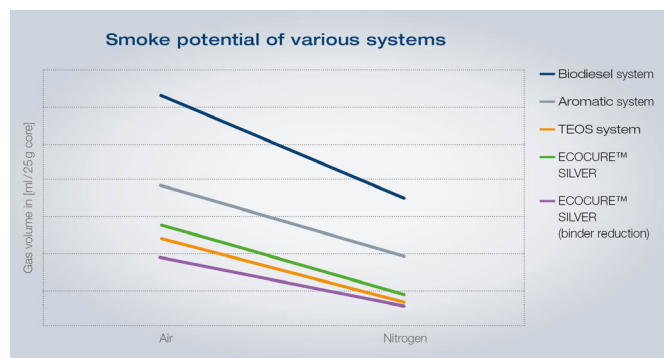


Figure 2: Comparison of the smoke potential of different binder systems

YOUR SUSTAINABILITY PLUS

Profitability

- Low binder and amine consumption
- Longer cleaning cycles
- Shorter cycle times

Environment and Social

- Less labeling due to the basis of ECOCURE™ BLUE technology
 - Free phenol <1,0%
 - Free formaldehyde <0.1%
- Less emission due to binder reduction
- Reduction of smoke