# INSURAL Furnace Lining System for Aluminium Foundries Saves Energy and Reduces Downtime

**PRESS RELEASE**

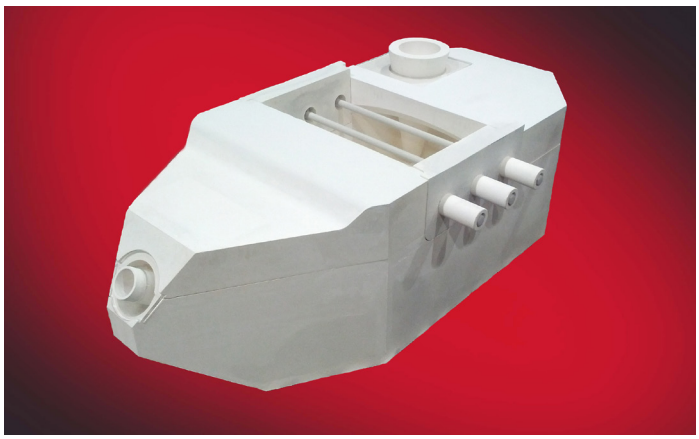
Borken, July 2017

**FOSECO has developed a new, insulating lining system for use in dosing and low-pressure furnaces in Aluminium foundries. The system, based on Foseco's INSURAL range of non-wetting and insulating refractories offers numerous benefits to the foundryman.**

The adoption of energy efficient furnaces in aluminium foundries is widely regarded as best-in-class. However, the efficiency of these furnaces is often undermined by the choice of refractory lining. FOSECO is now able to supply a new, multi-part and highly insulating lining made of INSURAL. The lining, which is delivered ready to install, combines energy savings in combination with long service life and resistance to oxide build-up.

As the majority of the lining system is made of pre-cast INSURAL shapes, the installation can be completed in just three days, either by the foundry or by a refractory installation company.

Unlike traditional linings, no sintering is necessary! The furnace just needs to be pre-heated and maintained at working temperature for 48 hours. It is then ready for service.



**Contact:**
Arndt Fröscher, European Product Manager Non Ferrous methoding
Arndt.froescher@foseco.com

The INSURAL furnace lining system is completely dry. As a consequence, hydrogen pick-up from a new lining system is negligible and the melt density index goal can be achieved within a very short period following installation. Furnace downtime is dramatically reduced and the risk of increased scrap avoided. Due to the inherent non-wetting behaviour of the lining system, coroundum growth is minimal and cleaning of the furnace simplified.

The target: Fast turnaround. The solution: Dry installation of INSURAL precast, insulating shapes. The benefits are:

+ No sintering required
+ Significant energy savings
+ Extremly low corundum growth
+ Improved melt quality
+ Reduced hydrogen level after commissioning
+ Reduction of energy peaks
+ Can be installed on or off-site
+ Minimised downtime
+ Immediate achievement of a constant density
+ Easy to clean