

## SPECIALIST REFRACTORY PRODUCTS SUPPORT BILLET CASTING OPERATIONS

E-Max specializes in sustainable aluminium solutions for billet and profiles at its plants in Belgium and the Netherlands. Part of Vaessen Industries, the company prides itself on continuous investment in quality, reliability and on-going innovation across its business units.

Pyrotek is a long term partner of E-Max and enjoys a close technical relationship. Amongst the casthouse products supplied by Pyrotek to E-Max are process-critical linings for billet casting tables and calcium silicate transition plates. A recent project carried out by Pyrotek was to identify ways of improving the performance of a billet casting table, including reducing both downtime and maintenance costs.

By using Pyrotek's innovative Wollite liquid foam backing insulation coupled with an Insural refractory hot face lining, the service life of the billet casting table refractories has been extended and the level of costly maintenance reduced.

Wollite locks refractory sections in place and ensures optimum joint integrity of the components, thereby helping to prevent molten metal penetration and minimising the need for repairs and maintenance. In addition, Wollite's high insulating properties ensures that the steel framework of the casting table is protected from high temperatures, which can lead to significant damage.

Pyrotek also helped E-Max to improve casting table preheating practices by installing its new ZEN table electric preheater that eliminates the need to use dangerous gas flames during processing. Pyrotek looks forward to continuing its support of E-Max with products and technology to help the customer remain a leader in the billet casting field.

**[www.pyrotek.info/billet](http://www.pyrotek.info/billet)**



## WOLLITE SERIES INSULATING CASTABLES FOR THE ALUMINIUM INDUSTRY

Wollite from Pyrotek is a pourable, light-weight mineral foam insulation material. Because of the consistency of the pourable mix, and due to the foaming properties, the material is suitable for insulating refractory parts such as refractory trough liners, ceramic foam filter box liners or any complex refractory shape.

After mixing and pouring Wollite in a liquid state, it expands and solidifies within a matter of minutes. Because of its low viscosity, Wollite fills very narrow cavities.



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Applications include back-up insulation for ceramic foam filter boxes, troughs and covers with a maximum service temperature of 1000°C (1832°F).

Process advantages centre on a very low viscosity, filling narrow and complex cavities and energy cost savings due to better insulation efficiency. Further benefits include easier and safer removal and reinstallation and a quick set time and low firing temperature.

[www.pyrotek.info/wollite](http://www.pyrotek.info/wollite)



## ZEN PREHEATER SYSTEM FOR CASTING TABLES AND LAUNDERS

The ZEN unit is available from Pyrotek with a range of different air supplies and heat sources to meet the specific preheating requirements of the end user, and with specially made mounting brackets, designed to fit any flange or launder design. A high-temperature cover can be fabricated to accommodate most applications, increasing the ZEN's preheating efficiency with a combination that offers a significantly higher performance than a traditional gas-fired unit. The ZEN system can be designed for a variety of electrical supply voltages and phases, and with just one-button operation. The system is compact, mobile and very easy to use.



The ZEN preheat system incorporates equipment and design features to optimise its effectiveness and process performance. Proven in production application, significant real annual cost savings are obtained by incorporating Pyrotek's ZEN preheater in-pit system. Process and safety improvements are also realized by replacing gas-fired preheaters and other traditional equipment. Scrap and lost production due to surface quality problems, including cold folding, can be reduced by eliminating cold start practices.

[www.pyrotek.info/zen](http://www.pyrotek.info/zen)