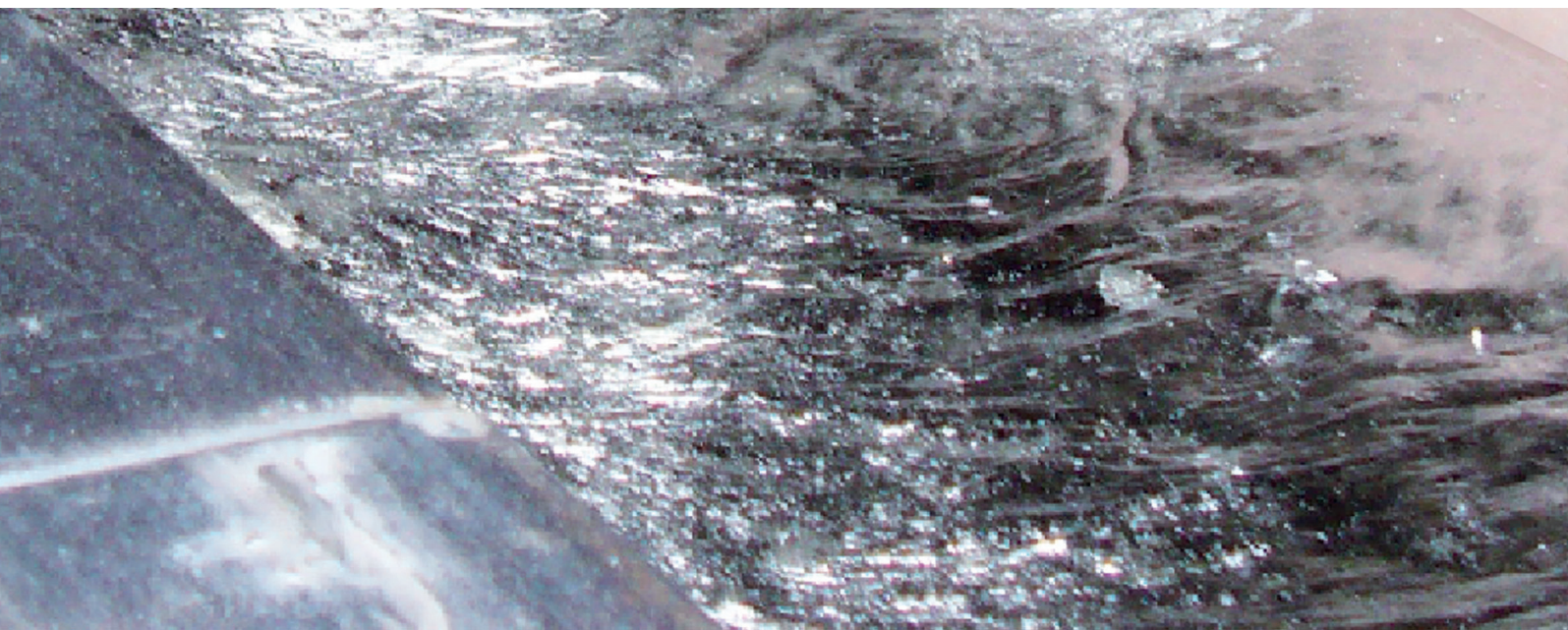


Boron Nitride Solutions by Henze for Aluminium casting



Henze boron nitride coatings are aligned precisely to the requirements of aluminium and ingot casting.

Here you will find your boron nitride solution, which we can also develop further with you if you require individualised solutions.

A perfect coupling – aluminium casting and boron nitride



HeBoCoat® PL-W 250

Highly-concentrated water-based boron nitride coating for aluminium casting. Special binders ensure very good adhesion to the substrate - even at high temperatures.

In the **HeBoCoat® alucast** product version in comparison to PL-W 250, the reddish-brown colouring additionally creates a good surface contrast.



Areas of Application

- ▶ Coating of pouring table, trough, manifold, skim frame, hot head ring and tool.
- ▶ Coating of ladle and channel in the die casting and low pressure casting

HeBoCoat® PL-W 130

Water-based boron nitride coating with inorganic binders for use in the high temperature range. No formation of decomposition gases.

Areas of Application

- ▶ Coating of pressing disc, container seal and shear blade
- ▶ Lubricant and release agent for hot forming processes, application to 500 °C hot metal surfaces possible

HeBoCoat® EL-W 250

Highly-concentrated water-based boron nitride coating for use in aluminium casting.

Area of application

- ▶ Coating of glass fibre materials
- ▶ Coating of pouring table, trough, manifold, skim frame, hot head ring, and tool



HeBoCoat® colour green

Green coloured concentrate which is used as an additive in water-based boron nitride suspensions. The bright boron nitride suspension gets its green tint from the colour concentrate, which improves the contrast on bright surfaces and facilitates the coating process

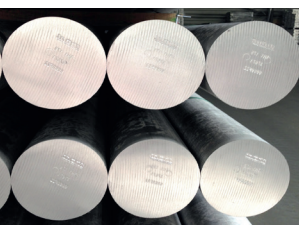
Area of application

- ▶ Coatings in the field of cast aluminium



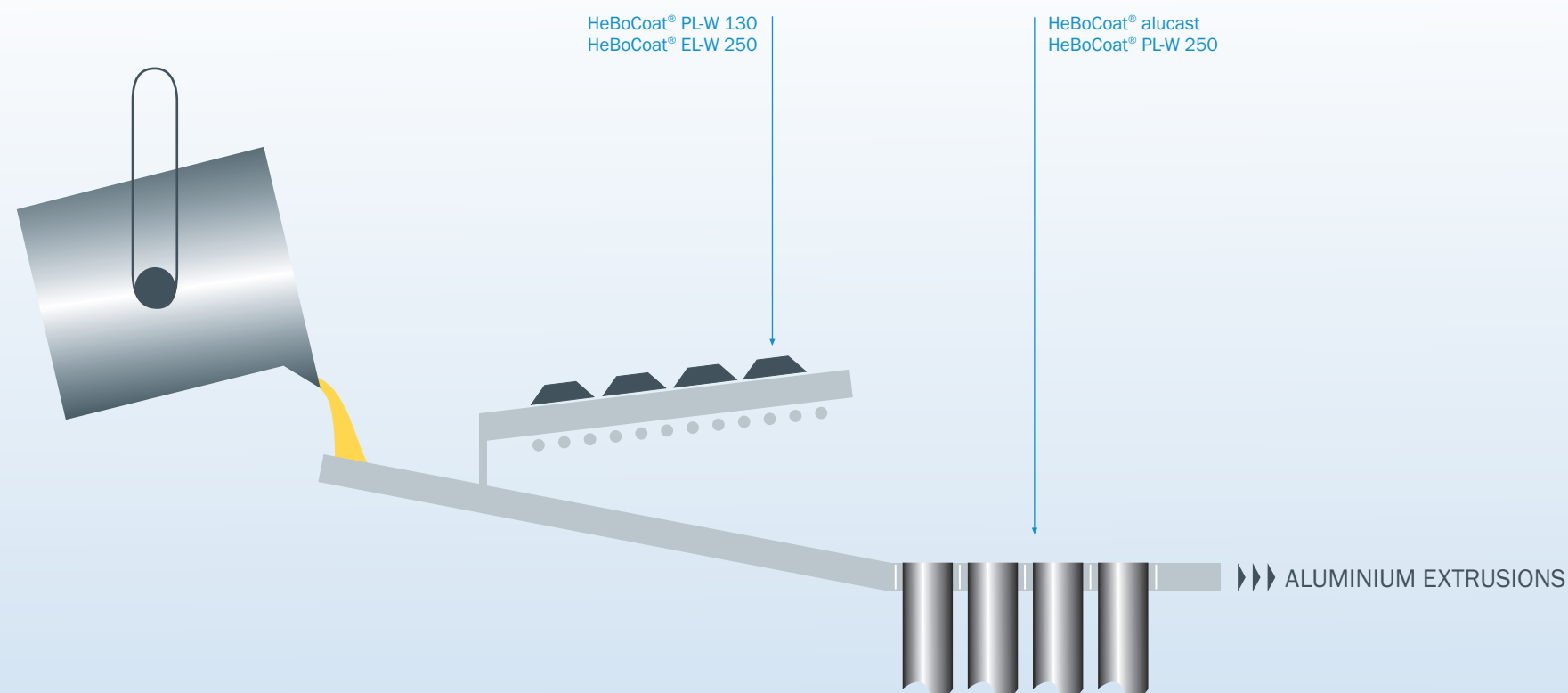
Further applications

HeBoCoat® products can also be used in the seamless extrusion process for mandrel coating. This process is used to produce seamless tubes and single-chamber profiles.



Increasing aluminium component requirements, such as weight reduction or increased load-bearing capacity, necessitate special alloys and casting processes in cast aluminium. Simultaneously, this development requires both new solutions in the field of refractory products and their protection with special coatings.

ALUMINIUM CASTING



Benefits of boron nitride

- ▶ High production output, thanks to reduced downtime of the equipment
- ▶ Less wear on the component
- ▶ Less scrap
- ▶ Easy processing
- ▶ Economical consumption
- ▶ More cleanliness than when using alternative release agents and lubricants

Properties of boron nitride

- ▶ Good sliding and separating effect, even at high temperatures
- ▶ High oxidation resistance
- ▶ Temperature resistance in air up to 900 °C
- ▶ Environmental friendliness and physiological harmlessness



Henze - the Specialist for Boron Nitride Solutions

Henze BNP AG is based in Lauben, in the heart of the beautiful Allgäu, in the south of Germany. With the know-how of its 50 employees, the family-managed company has developed into one of the leading specialists for hexagonal boron nitride products. These include, for instance, precision parts, coatings, sprays, and various powder qualities.

Thanks to the special properties of boron nitride, such as, e.g., easy machining, high temperature resistance, good separating and lubricating properties, as well as electrical insulation, many different industrial requirements can be fulfilled.



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If you have any questions about our products and their applications, please contact our experts and our sales partners.

