

Isolat® Coate Hydro

Ladle coating for temperatures exceeding 1400 °C

High-Pressure Die Casting Auxiliary Material Isolat® Coate Hydro. Smooth Flow of Aluminum Melt.

Isolat® Coate Hydro is a concentrated, ready-to-use insulating coating applied to casting ladles, spoons, runners or steel crucibles. The auxiliary material contains ceramic pigments and binders with anti-adhesive properties that withstand extreme temperatures above 1400 °C without decomposing. It forms an insulating, glass-like hard, permanent release layer on the tools, which on the one hand greatly reduces wear by lowering the temperature load and on the other hand actively prevents adhesion of the liquid metal. The precisely adapted surface structure ensures an even, low turbulence flow of the liquid metal. Due to its high solids content with a density (at 20 °C) of 1.3 - 1.5g/cm³, it is very high-yielding. Depending on the application, the ceramic layer can withstand several hundred castings. With each casting, a micropart of the film is detached from the mold surface until it is eventually consumed.

Water-based Formulation

To make the product as user-friendly and sustainable as possible, a water-based formulation was deliberately developed. When oil-based products are applied to hot casting channels, massive smoke emissions or even burning of the carrier oil often occur. With Isolat® Coate Hydro such reactions are non-existent. The coating even has another advantage - it contains a light blue colour indicator for a visual application check. After the water has completely evaporated, the coating changes colour and thus shows that the protective and insulating layer has completely formed.

Another good reason for using this product is the variable viscosity of the coating. In its undiluted, original state, Isolat® Coate Hydro can be applied drip-free with a brush or swab on the casting channel or casting ladle. If, on the other hand, dipping or spraying is preferred, the desired viscosity is easily achieved by diluting the coating with tap water.

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There are almost no limits to the possible application of Isolat® Coate Hydro. The product offers significant advantages not only in Aluminum die casting, but also wherever tools are exposed to extreme stress loads from liquid metal.



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Tribolchemie GmbH – Trennen wie geschmiert

Tribolchemie GmbH, based in Bavaria, specializes in the customized development and production of innovative die lubricants for hot forming as well as release agents and lubricants for die casting. German and international customers appreciate the decades of experience, the personal advice for individual, technically demanding special solutions. Production takes place on specially designed equipment for the manufacture of stable emulsions, dispersions, coatings, piston oils, granulates/beads, powders and pastes. This makes it possible to supply high-performance, novel products flexibly and quickly for the industry, which not only have an economic advantage, but also a technological advantage. In-house production guarantees the high-quality standard and ensures independence.

Tribolchemie GmbH is a medium-sized, family-owned company.

Kontakt:

www.tribolchemie.de

Tel: +49 9732 7838 0

vertrieb@tribolchemie.de