



Chem-Trend and Imerys Metalcasting Solutions

Chem-Trend and Imerys Metalcasting Solutions pool their development expertise for sand foundries.

Joining forces for innovative specialty chemicals solutions for sand casting.

Chem-Trend is a global leader in the development, production and marketing of high-performance release agents and other related ancillary products for moulding and casting operations. Integrating directly into the production processes of its customers allows Chem-Trend to leverage the experience, knowledge and development know-how of its experts and adopt a solution-oriented approach. This means that Chem-Trend can offer its customers tailored solutions to improve productivity, component quality and customer operating results.

Imerys Metalcasting was created from the IKO brand through the strategic merger of S&B with the Imerys Group and is the market leader for moulding sand additives based on bentonites/carbon carriers. In addition, Imerys Metalcasting Solutions manufactures additives to prevent veining and has developed the emission-free ENVIBOND® green sand binder system as a sustainable option.



A co-operation with added value

The partnership between Chem-Trend and Imerys Metalcasting Solutions offers the global market an innovative premium product portfolio of chemical specialties for sand casting. This cooperation provides customers with a comprehensive, well-engineered product range for the production of high-quality sand moulds and cores from a single source.

Release agents for demoulding
Release agents for mould production
Metal-free baked finish

PRODUCT OVERVIEW

Water-based release agent for demoulding of cold and heat-curing sand

Chem-Trend® SC-18040 is a ready-to-use, aqueous emulsion of high-performance, release-active substances. Chem-Trend® SC-18040 demonstrates excellent release properties for croning, hot box, cold box plus and similar processes owing to its special combination of active agents. While this release agent is a ready-to-use formulation, it can also be diluted with water if needed. When used correctly, multiple demouldings are generally possible after a single application of the release agent.

Release agents for demoulding cold curing sands for core and mould production

Chem-Trend® SC-19100 and **Chem-Trend® SC-19820** are solutions of special silicone oils in aromatic-free SBP gasoline and aliphatic hydrocarbons. Thanks to the special combination of active agents, both products have good release properties for cold curing processes, especially for the cold box process. Multiple demouldings are possible. The release agents Chem-Trend® SC-19100 and Chem-Trend® SC-19820 are applied thinly and evenly on the mould using a brush, cloth or spray device.

The aerosol **Chem-Trend® SC-19800A** is based on a solution of special silicone oils in aromatic-free SBP gasoline and aliphatic hydrocarbons. Chem-Trend® SC-19800A's special combination of active agents demonstrates good release properties for cold curing processes, especially for the cold box process. Multiple demouldings are possible with simple moulds. Chem-Trend® SC-19800A is applied thinly and evenly to the clean mould. Edges and undercuts in particular must be carefully sprayed.

Release agent for demoulding heat curing sands with inorganic binder system

EUSC-17-0922H is mixed with low-emission additives, specially developed to withstand the modern heat-curing inorganic binder systems. EUSC-17-0922H is a ready-to-use water-based emulsion and is sprayed onto the previously cleaned surface at operating temperature to be separated. Multiple demouldings are generally possible once the release agent has been properly applied.

Release agent for mould production

Chem-Trend® SC-19823 is a silicone-containing release agent specially developed for the demoulding of wet casting (green sand). Sand adhesion is largely avoided by a heat-and-moisture-resistant release agent film. The mouldings remain sharply contoured. Chem-Trend® SC-19823 is a ready-to-use release agent formulation. When used correctly, multiple demouldings are generally possible after a single application of the release agent.

Metal-free baked finish for high temperature casting tools

Wolfrakote TOP is a high-temperature paste for the temperature range from -25 °C to +1000 °C. Above 200 °C, it acts as a dry lubricant. The paste contains selected special oils and inorganic solid lubricants that ensure good separation of the treated components. A thin film of Wolfrakote TOP is applied with a brush. Re-coating is trouble free and there is no need to stop production. In the non-ferrous metal casting sector, Wolfrakote TOP is used as a baked finish for casting tools such as ladles, casting funnels and casting troughs. In addition, Wolfrakote TOP is also used as a high-temperature assembly paste.