INSULMOULD® MOULDABLES

INSULCON
LEADER IN HIGH TEMPERATURE SOLUTIONS

Insulmould® Mouldables are versatile products used as cast shapes, coatings, lining and for general refractory repairs. These products are based on high performance refractory fibres blended with selected inorganic and organic binders.

Insulmould® Mouldables is a highly sticky putty like product which requires only drying to produce a hard surfaced, low shrinkage efficient insulator. The tackiness provides good adhesion to the applied surface during drying, thereby ensuring a good refractory bond. Mould is available in a ceramic- and non-ceramic execution.

Thermal Conductivity (W/m°K)

Mould Products	1100	1260	1260i
600 °C	0.20	0.21	0.22
800 °C	0.23	0.25	0.26
1000 °C	0.30	0.31	0.32

Installation

Insulmould® Mouldables can be installed with a trowel, spatula or caulking gun. It is easily shaped to the desired contour, by wetting the forming tool and moulding to shape. Drying involves removal of the internal water. If the mass is small (less than 0.5 kg) it can be immediately fired to its use temperature or directly applied to a hot surface if desired. For larger masses, the recommended practice is forced drying at 90-150 °C with a major uncovered surface exposed and adequate ventilation provided.

Typical Applications

- Hot and cold patching of refractory cracks
- Trough linings for aluminium and other non-ferrous metals
- Patching around burner blocks
- Coating for metal liners
- Collector Bar Sealing, significantly reducing oxidation of the cathode

For special applications we can also deliver a fast-drying Mould, using a special Mould accelerator. This mix can be delivered as a pre-fab mix.

Availability and shelf life

Insulmould® Mouldables is available in 420 g cartridges, 5 kg and 25 kg pail and in handy sachets of 600 ml to 1500 ml. Insulmould® Mouldables has a shelf life of 6 months, if not exposed to high temperatures. Recommended shelf storage temperature is 5 - 20 °C.

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TECHNICAL DATASHEET

Form: A1-217
Effective: 27062025/BV/jj
Supersedes: 15092022/ES
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Insulmould® Mouldables		1100 (low bio- persistent)	1260* (Ceramic)	1260i (low bio-persistent)
Chemical Composition (fired)-%				
Al_2O_3			45-50%	
SiO_2		65-68%	51-60%	68-78%
MgO		< 6%		20-30%
CaO		25-30%		
Typical Physical Properties				
Colour		Bluish White	White	Bluish White
Product Form		Tacky/Putty	Tacky/Putty	Tacky/Putty
Classification Temp. (°C)		1100	1260	1260
(feedstock fibre)				
Maximum Recommended				
Operating temp. (°C)		1100	1260	1260
Wet Density (kg/m^3)		1244	1244	1244
+/- 10 %				
Dry Density (kg/m^3)		366	366	366
+/- 10 %				
Modulus of Rupture (Dry)		>2,5 Mpa	>2,5 Mpa	>2,5 Mpa
Cold Crushing Strength		>2,8 Mpa	>3,0 Mpa	>2,8 Mpa
Minimum shelf life (Months)		6	6	3
Available amount of viscosity**		Low	Low/High	Low/High

**Various viscosities possible, on customer request

***** Also available in types Mould 1260L, Mould 1260LM and Mould LMA. These types are produced with a special inorganic and organic binders. Insulmould LMA has a low LOI (loss on ignition), Insulmould 60LM is less adhesive for the tooling during installing.

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