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ISOCAST TOP

Insulating concrete WITHOUT ceramic fibre

TECHNICAL DATA SHEET

Main Component :	Calcium aluminate	
Maximum use temperature:	[°C]	1550
Melting point:	[°C]	> 1800
Chemical analysis:	[%]	Al ₂ O ₃ +TiO ₂ : 88÷89
	[%]	CaO: 11÷12
Water quantity:	[L/100 kg secco]	43 ÷ 45
Density after drying at 1000 °C:	[kg/m ³]	1400
Installation quantity:	[kg/m ³]	1350
Thermal conductivity:	[W/(m·K)]	110 [°C]: 0,46
	[W/(m·K)]	1000 [°C]: 0,44
	[W/(m·K)]	1400 [°C]: 0,40
Thermal expansion at 1000 °C:	[%]	0.8
Expansion (+) or shrink (-) after firing at:	[%]	110 [°C]: -0.05
	[%]	1000 [°C]: -0.3
	[%]	1400 [°C]: -1.5
Compressive strength after curing:	[N/mm ²]	8.33
Compressive strength after firing at:	[N/mm ²]	1000 [°C]: 4.02
	[N/mm ²]	1200 [°C]: 3.04
	[N/mm ²]	1400 [°C]: 7.35
Application:	Casting- vibrating casting	
Drying and firing:	The suitable curve of drying and sintering will be available on request.	

NOTES:

Packing: Polythene bags of 25 kg on pallets of 1000kg.

Preservation: 12 months in its own packing and far from heat sources

Main appliances:

- insulation material for high temperature and coating top for transporting steel ladles, tundish top and top for continuous casting ladles

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Considering the quality of the raw materials, there can be slight differences in the above data which do not commit our technical department. We reserve the right to change some of the above data without previous information and according to our unobjectionable judgement.