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ISOCAST AL
Insulating concrete WITHOUT ceramic fibre
TECHNICAL DATA SHEET

Main Component :	Alumina	
Maximum use temperature:	[°C]	1280
Melting point:	[°C]	1400
Average grain size:	[mm]	0÷2
Chemical analysis:	[%]	Al ₂ O ₃ +TiO ₂ : 74÷77
	[%]	BaO: 7÷9
	[%]	CaO: 12÷13
Water quantity:	[L/100 kg secco]	25 - 28
Density after drying at 1000 °C:	[kg/m ³]	1500 - 1600
Thermal conductivity:	[W/(m·K)]	110 [°C]: 0,75
	[W/(m·K)]	1000 [°C]: 0,87
Thermal expansion at 1000 °C:	[%]	0.7
Expansion (+) or shrink (-) after firing at:	[%]	110 [°C]: -0.1
	[%]	1000 [°C]: -0.2
Compressive strength after curing:	[N/mm ²]	12.74
Compressive strength after firing at:	[N/mm ²]	1000 [°C]: 14.71
Application:	By hand ramming, by trowel and/or vibrating casting	
Drying and firing:	The suitable curve of drying and sintering will be available on request.	

NOTES:

Packing: Polythene bags of 20kg on pallets of 625 kg.

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

Main appliances:

- Repairing aluminium holding and melting furnaces
- Coating and repairing of aluminium channels
- Repairing ladles for aluminium

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.