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CAST AL DG R
Dense concrete
TECHNICAL DATA SHEET

Main Component :	Bauxite	
Maximum use temperature:	[°C]	1300
Melting point:	[°C]	1600
Average grain size:	[mm]	0÷8
Chemical analysis:	[%]	Al ₂ O ₃ +TiO ₂ : 79÷81
	[%]	SiO ₂ : 6÷8
	[%]	CaO: 2.5÷3.5
	[%]	BaO: 4÷6
Water quantity:	[L/100 kg secco]	6.0÷7.0
Density after drying at 1000 °C:	[kg/m ³]	2700
Thermal conductivity:	[W/(m·K)]	110 [°C]: 0,64
	[W/(m·K)]	500 [°C]: 0,85
	[W/(m·K)]	900 [°C]: 1,40
Thermal expansion at 1000 °C:	[%]	0.9
Expansion (+) or shrink (-) after firing at:	[%]	110 [°C]: - 0.05
	[%]	900 [°C]: 0.0
Compressive strength after curing:	[N/mm ²]	37,27
Compressive strength after firing at:	[N/mm ²]	750 [°C]: 88,26
	[N/mm ²]	900 [°C]: 107,87
Application:	Casting - Vibration casting	
Drying and firing:	Check with the manufacturer. The suitable curve of drying and sintering will be studied according to the thickness.	

NOTES:

Packing: Polythene bags of 25 kg on pallets of 1000÷1500 kg.

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

Main appliances:

- Coating of aluminium furnaces strike zone solid charging
- Coating of aluminium channels
- Coating of aluminium ladles

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Product name: CAST AL DG

Code: PF520

Revision date: 17/07/17

Printing date: 20/01/20

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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.