

E-mail generale: [info@deltaphoenix.it](mailto:info@deltaphoenix.it)  
Laboratorio: [tech@deltaphoenix.it](mailto:tech@deltaphoenix.it)  
Amministrazione: [admin@deltaphoenix.it](mailto:admin@deltaphoenix.it)  
[www.deltaphoenix.it](http://www.deltaphoenix.it)

**CAST 50 F**  
**Dense refractory concrete**  
**TECHNICAL DATA SHEET**

Main Component :	Bauxite	
Maximum use temperature:	[°C]	1550
Melting point:	[°C]	1780
Average grain size:	[mm]	0÷6
Chemical analysis:	[%]	Al <sub>2</sub> O <sub>3</sub> +TiO <sub>2</sub> : 84÷86
	[%]	SiO <sub>2</sub> : 12.2÷12.4
	[%]	CaO: 2.6÷2.8
Water quantity:	[L/100 kg dry material]	9÷10
Density after drying at 1000 °C:	[kg/m <sup>3</sup> ]	2600
Thermal expansion at 1000 °C:	[%]	0.9
Expansion (+) or shrink (-) after firing at:	[%]	1000 [°C]: -0.1
	[%]	1350 [°C]: -0.1
Compressive strength after curing:	[N/mm <sup>2</sup> ]	49,03
Compressive strength after firing at:	[N/mm <sup>2</sup> ]	500 [°C]: 49,03
	[N/mm <sup>2</sup> ]	1000 [°C]: 63,74
Application:	Casting – Vibration casting	
Drying and firing (thickness < 100mm):	Firing at 30 [°C/h] till 120 [°C] Wait for 8 h. Firing at 20 [°C/h] till 350 [°C] Wait for 8 h.	

**NOTES:**

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

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

Storage temperature: 5÷35 °C

Main appliances:

- Coating pig-iron ladles
- Coating of covers electrical furnaces for pig iron
- Coating of walls PITS furnaces and covers

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.