

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 88 HR**  
**Dense refractory concrete**  
**TECHNICAL DATA SHEET**

Main Component :	Bauxite	
Maximum use temperature:	[°C]	1600
Melting point:	[°C]	1780
Average grain size:	[mm]	0÷8
Chemical analysis:	[%]	Al <sub>2</sub> O <sub>3</sub> +TiO <sub>2</sub> : 89 ÷ 90
	[%]	CaO: 1 ÷ 2
	[%]	SiO <sub>2</sub> : 9 ÷ 10
Water quantity:	[L/100 kg secco]	7.0 ÷ 7.5
Density after drying at 1000 °C:	[kg/m <sup>3</sup> ]	2800 – 2900
Thermal conductivity:	[W/(m·K)]	110 [°C]: 0,64
	[W/(m·K)]	500 [°C]: 0,85
	[W/(m·K)]	1100 [°C]: 1,40
Thermal expansion at 1000 °C:	[%]	0.9
Expansion (+) or shrink (-) after firing at:	[%]	110 [°C]: - 0.05
	[%]	1100 [°C]: 0.0
	[%]	1500 [°C]: -1.4
Compressive strength after curing:	[N/mm <sup>2</sup> ]	37,27
Compressive strength after firing at:	[N/mm <sup>2</sup> ]	750 [°C]: 88,26
	[N/mm <sup>2</sup> ]	1100 [°C]: 107,87
Application:	Vibration casting	
Drying and firing:	The suitable curve of drying and sintering will be provided on request.	

**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 ladles for metal silicon
- Coating Top for electric furnaces for cast iron
- Coating for cast iron and steel ladles

Delta Phoenix srl  
Refrattari Speciali – Special Refractories  
Divisione Edilizia – Civil Department

25030 Maclodio (Brescia) Italy – Via XXV Aprile, 15  
Tel. +39 030 978241 – Fax +39 030 9973964



**Product name: CAST 88 HR**

Code: PF783

Revision date: 17/07/17

Printing date: 17/01/20

Page: 2 di 2

---

*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)*

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.