

E-mail generale: info@deltaphoenix.it
Laboratorio: tech@deltaphoenix.it
Amministrazione: admin@deltaphoenix.it
www.deltaphoenix.it

ALUCAST

Light concrete WITHOUT ceramic fiber

TECHNICAL DATA SHEET

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| Main Component : | Aluminium Silicate |
| Maximum use temperature: | [°C] 1250 |
| Melting point: | [°C] 1400 |
| Chemical analysis: | [%] Al ₂ O ₃ +TiO ₂ : 38÷40 |
| | [%] CaO: 33÷35 |
| | [%] SiO ₂ : 27÷29 |
| Water quantity: | [L/100 Kg dry material] 42÷44 |
| Installation quantity: | [kg/m ³] 1400 |
| Density after drying at 1000 °C: | [kg/m ³] 1350 |
| Thermal conductivity: | [W/(m·K)] 110[°C]: 0.46 |
| | [W/(m·K)] 800[°C]: 0.40 |
| | [W/(m·K)] 1000[°C]: 0.55 |
| Thermal expansion at 1000 °C: | [%] 0.65 |
| Expansion (+) or shrink (-) after firing at: | [%] 500 [°C]:-0.1 |
| | [%] 1000 [°C]:-0.3 |
| Compressive strength after curing: | [N/mm ²] 13.72 |
| Compressive strength after firing at: | [N/mm ²] 700 [°C]: 7.84 |
| | [N/mm ²] 1000[°C]: 8.33 |
| Application: | Vibration casting |
| Drying and firing (thickness < 100mm): | Firing at 30 °C/h till 150 °C. Firing for 10 h at 150 °C. |

NOTES:

Packing: Polythene bags of 25 kg on Euro-pallets of 625 kg

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

Main appliances:

- Coating of aluminium holding furnaces completely
- Electrical resistances support
- Coating of ladles, channels, covers 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.

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: ALUCAST

Code: PF355

Revision date: 17/07/17

Printing date: 17/01/20

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