

Alumina Castable 80% Al₂O₃ P-CAST-A80

Castables & Ramming Mixes

Material type: Dense refractory concrete (Conventional Castable)

Raw material basis: Bauxite



Al₂O₃

79 – 81 %

Bulk density

2.45 – 2.6 g/cm³

Grain size

0 – 8 mm

Cold crushing strength (1 ...

Min. 550 kg/cm²

Applications

- Industrial furnaces, burners and stacks with medium to high service temperatures
- Refractory repairs and linings in the steel, cement and petrochemical industries

Chemical analysis

Component	Value	Unit
Al ₂ O ₃	79 – 81	%
MgO	Max. 0.5	%
CaO	3 – 4.5	%
Fe ₂ O ₃	Max. 1.7	%
TiO ₂	Max. 2.2	%
SiO ₂	10 – 13	%

Physical properties

Property	Value	Unit
Bonding system	Hydraulic	
Grain size	0 – 8	mm
Maximum service temperature	1650	°C
Bulk density	2.45 – 2.6	g/cm ³
Cold crushing strength (110 °C)	Min. 550	kg/cm ²
Cold crushing strength (800 °C)	Min. 400	kg/cm ²
Cold crushing strength (1100 °C)	Min. 250	kg/cm ²

Packaging & storage

Packaging: 25 kg bags (dry mix, water is added on site)

Shelf life: 6 months (dry, cool, frost-free place)

Notes

Installation: casting with vibration; water addition and drying according to the manufacturer's instructions.

The values in this datasheet are typical results of laboratory tests on production samples and do not constitute a guaranteed specification. Consult the Pas Espadana technical team for your specific application.