

Alkali-Resistant Alumina Castable 45% Al₂O₃ P-CAST-A45AR

Castables & Ramming Mixes

Material type: Dense refractory concrete (alkali resistant)

Raw material basis: High alumina aggregates and high grade SiC



Al₂O₃

45 – 52 %

Bulk density

Approx. 2.2 g/cm³

Grain size

0 – 5 mm

Cold crushing strength (...)

Min. 550 kg/cm²

Applications

- Areas exposed to alkali vapours and compounds, such as cement preheaters and ducts
- Linings of thermal equipment fired with alkali-bearing fuels or feed

Chemical analysis

Component	Value	Unit
Al ₂ O ₃	45 – 52	%
CaO	3 – 6	%
SiC	15 – 20	%

Physical properties

Property	Value	Unit
Bonding system	Hydraulic	
Grain size	0 – 5	mm
Maximum service temperature	1400	°C
Bulk density	Approx. 2.2	g/cm ³
Cold crushing strength (110 °C)	Min. 550	kg/cm ²
Cold crushing strength (1100 °C)	Min. 600	kg/cm ²

Packaging & storage

Packaging: 40 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.