

# Alumina Castable 45% Al<sub>2</sub>O<sub>3</sub> P-CAST-A45GH

## Castables & Ramming Mixes

Material type: Dense refractory concrete (Conventional Castable)

Raw material basis: Chamotte



Al<sub>2</sub>O<sub>3</sub>

**44 – 46 %**

Bulk density

**Approx. 2.2 g/cm<sup>3</sup>**

Grain size

**0 – 5 mm**

Cold crushing strength (...)

**Min. 500 kg/cm<sup>2</sup>**

## 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 <sub>2</sub> O <sub>3</sub> | 44 – 46 | %    |
| CaO                            | 3 – 5   | %    |
| Fe <sub>2</sub> O <sub>3</sub> | Max. 2  | %    |
| TiO <sub>2</sub>               | 2 – 4   | %    |
| SiO <sub>2</sub>               | 38 – 44 | %    |

## Physical properties

| Property                         | Value       | Unit               |
|----------------------------------|-------------|--------------------|
| Bonding system                   | Hydraulic   |                    |
| Grain size                       | 0 – 5       | mm                 |
| Maximum service temperature      | 1500        | °C                 |
| Bulk density                     | Approx. 2.2 | g/cm <sup>3</sup>  |
| Cold crushing strength (110 °C)  | Min. 500    | kg/cm <sup>2</sup> |
| Cold crushing strength (1100 °C) | Min. 600    | kg/cm <sup>2</sup> |

## 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.