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Technical Data Sheet

Low Cement Castable – 70% Alumina

Bauxite-based, 0–6 mm, for monolithic linings

Description

Low cement castable (LCC) is a dry, ready-to-mix refractory concrete made from calcined bauxite aggregate, fine alumina and a low-lime calcium aluminate cement bond. This 70% Al_2O_3 high alumina castable gives high strength after drying and firing, good abrasion and slag resistance, and a low water demand for a dense, long-lasting monolithic lining. It is cast, vibrated or pumped in place, so complex shapes are lined without joints. Ochnology Solution Pvt. Ltd. is a manufacturer and supplier of refractory castables, including low cement, ultra-low cement and insulating grades, serving steel, cement, power and foundry buyers in India and worldwide.

Typical Applications

- Steel ladles, tundishes, soaking pits and reheating furnaces
- Cement preheater, kiln hood, cooler and burner zones
- Boilers, incinerators, power plant and foundry furnace linings

Specification

S. No.	Parameter	Specification	Test Method
1	**Alumina (Al_2O_3), %**	≥ 70	XRF / chemical analysis
2	**Iron Oxide (Fe_2O_3), %**	≤ 2.0	XRF / chemical analysis
3	**Calcium Oxide (CaO), %**	≤ 2.5	XRF / chemical analysis
4	**Bulk Density after drying at 110°C, g/cm³**	≥ 2.70	ASTM C134 / IS 1528
5	**Cold Crushing Strength after 110°C, MPa**	≥ 60	ASTM C133 / IS 1528
6	**Cold Crushing Strength after 1,100°C, MPa**	≥ 80	ASTM C133 / IS 1528
7	**Maximum Service Temperature, °C**	1,650	Manufacturer's rating
8	**Grain Size, mm**	0 – 6	Sieve analysis
9	**Water Addition, %**	5 – 7	Trial casting

General Properties

Product	Low cement castable, bauxite-based, 70% Al_2O_3
Form	Dry mix, ready to mix with clean water
Packing	25 kg bags or 1 MT jumbo bags

Handling and Storage

- Store in a dry, covered place, off the ground and away from moisture; cement-bonded castable loses strength if it absorbs water
- Use clean water for mixing and follow the installation and dry-out schedule
- For safety information, refer to the accompanying Safety Data Sheet (SDS)

Disclaimer: The information in this document is typical and is intended as a general guide. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own evaluation under end-use conditions before use.