



Product data sheet

Refractory applications –Low Cement Castables

Reference META07/06

METACAST-LC 90

Applications

- METACAST LC90 is a hydraulic setting /ceramic bonded low cement castable (LCC) with alumina content of approximately 90%, which is used at high temperatures, in excess of 1700°C.
- It is used in Electric Arc Furnace roof and wall casting.

General characteristics

Chemical composition

Main constituents (%)

Al₂O₃- 90% min Fe₂O₃- 0.5% max. , CaO-1.5% max.

Physical properties

Grain Size	Bulk Density	HMR(Hot Modulus of Rupture)	Cold Crushing Strength Kg/cm ²	Setting	Service Temperature	Water Addition	PCE Value	PLC Briquette size 25 X 25 X100 8% moisture dried at 110°C
0-5mm	2.85gm/cc	At 1400°C 70Kg/cm ² min.	At 110°C/ 24hrs- 700min 900°C/ 24hrs- 800min 1300°C/ 24hrs- 1200min	Hydraulic setting/ Ceramic Bonding	1700° C- 1850°C	4 -6%	ORTON 36 min.	At 1500°C/2hrs± 0.3%

Packaging

METACAST LC90 does not contain any additives. METACAST LC90 packaging is designed to protect it from moisture. However, it is recommended that METACAST LC90 not be placed in direct contact with the ground. When correctly stored, the shelf life of METACAST LC90 is at least 6 months. In most cases, its properties are retained for over a year.

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