

Aathivinayaga Refractories

Technical Data Sheet

Product Name : Fire Cast LC 80



SI No	Properties	Value
1	Service Temperature °C (Max)	1700
2	Major Raw Material	Calcined Bauxite / Corundum
3	Self Life	6 Months
4	Grain Size (MM) (Max)	5
5	Water Required to Mix	5 to 6
6	Method of Installation	Vibro Casting
7	Bulk Density (gm/cc) (Min) Dried at 110°C	2.8
8	Intial Setting Time in Hours	2.5
Cold Crushing Strength (Kg/Cm²) (Min)		
1	110°C	700
2	1000°C	700
3	1200°C	750
4	1400°C	800
5	1500°C	900
6		
Permanent Linear Change (%) (Max)		
1	500°C	N/A
2	1000°C	0.3
3	1200°C	0.8
4	1400°C	1
5	1500°C	1
Thermal Conductivity (Kcal/m/hr/°C)		
1	400°C	1.8
2	1000°C	2.2
3	1200°C	2.4
1	Reversible Thermal Expansion % (1000° C)	0.6
2	Themal Shock Cycle (Air Quenching)	70
3	Alkali Resistance	Moderate
1	Chemical Analysis (%)	
2	Al ₂ O ₃	78 to 80
3	Fe ₂ O ₃	1.5
4	SiO ₂	N/A
5	CaO	1.8

Recommended Application Areas

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