



Reliance™
REFRACTORIES

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REFRACTORIES

FIRECLAY BRICKS & HIGH ALUMINA BRICKS

TECHNICAL SPECIFICATION						
FIRECLAY BRICKS & HIGH ALUMINA BRICKS						
DRY PRESSED BRICKS	RR 30	RR 35	RR 40	RR 45	RR 50	RR 55
Chemical Analysis						
Al ₂ O ₃ % min.	30	35	40	45	50	55
Fe ₂ O ₃ % min.	2.60	2.70	2.80	2.90	2.90	2.90
SiO ₂ % min.	60.90	55.60	51.00	45.50	41.00	35.50
TiO ₂ % min.	2.50	2.50	2.60	2.60	2.60	2.65
Physical Properties						
B.D.(Gm/ccs) min	1.90	2.00	2.10	2.20	2.30	2.40
A.P. % max.	25	23	23	22	22	22
C.C.S (Kgf/Cm ²) min.	300	330	350	380	400	450
Thermal Properties						
P.C.E.(O ^o C) Min	31	+31	32	33	+33	+33
R.U.L.(Ta °C at 2Kg/Cm ²)min	1330	1360	1390	1400	1420	1430
P.L.C. % max / 2Hrs.	±1.50at 1370 ^o C	±1.50at 1400 ^o C	±1.00at 1420 ^o C	±1.00at 1440 ^o C	±1.00at 1450 ^o C	±1.00at 1450 ^o C
NOTE.: 1. Size Tolerance : ±1.5% or 2mm.Whichever is greater. 2. Shaping Dry Pressing. 3. The Above Data Are On Average Result Basis.						



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TECHNICAL SPECIFICATION						
FIRECLAY BRICKS & HIGH ALUMINA BRICKS						
DRY PRESSED BRICKS	RR 60	RR 65	RR 70	RR 75	RR 80	RR 85
Chemical Analysis						
Al ₂ O ₃ % min.	60	65	70	75	80	85
Fe ₂ O ₃ % min.	3.10	3.10	3.30	3.40	3.50	3.60
SiO ₂ % min.	30.50	25.50	19.80	14.50	9.50	4.00
TiO ₂ % min.	2.80	2.90	2.90	3.00	3.20	3.50
Physical Properties						
B.D.(Gm/ccs) min	2.55	2.60	2.65	2.75	2.78	2.80
A.P. % max.	21	21	20	19	19	19
C.C.S (Kgf/Cm ²) min.	480	500	550	650	700	700
Thermal Properties						
P.C.E.(O ^o C) Min	34	+34	35	37	37	+37
R.U.L.(Ta °C at 2Kg/Cm ²)min	1450	1460	1470	1500	1510	1520
P.L.C. % max / 2Hrs.	±1.50at 1500 ^o C	±1.50at 1500 ^o C	±1.50at 1510 ^o C	±2.00at 1520 ^o C	±2.00at 1550 ^o C	±2.00at 1570 ^o C
NOTE.: 1. Size Tolerance : ±1.5% or 2mm.Whichever is greater. 2. Shaping Dry Pressing. 3. The Above Data Are On Average Result Basis.						

Insulating Bricks

TECHNICAL SPECIFICATION

Physical Properties	CF- Bhilwara	HFK 135	HFK 145	Porosint 40%	Porosint 50%	Porosint 60%
Service Temp.	950 °C	1350 °C	1450 °C	1250 °C	1300 °C	1430 °C
Al ₂ O ₃ %	20 – 25	32 – 35	36 – 38	38 – 40	48 – 50	58 – 60
Fe ₂ O ₃ %	–	0.50 – 1.00	0.50 – 1.00	0.50 – 1.00	0.60 – 0.80	0.50 – 1.00
Bulk Density	0.75 – 0.80 Gm/C.C.	0.90 – 1.05 Gm/C.C.	1.00 – 1.10 Gm/C.C.	0.60 – 0.75 Gm/C.C.	0.65 – 0.75 Gm/C.C.	0.70 – 0.85 Gm/C.C.
C.C.S.	–	32 – 37 Kg/Cm2	32 – 37 Kg/Cm2	20 – 25 Kg/Cm2	25 – 30 Kg/Cm2	30 – 35 Kg/Cm2

• The above data are on average result basis