

Fireclay & High Alumia Refractory Products

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FIRE CLAY AND HIGH ALUMINA BRICKS

Product	Al ₂ O ₃ %	Fe ₂ O ₃ %	A.P%	B.D gm/cc	CCS Kg/cm ²	PLC %	PCE(SK)	RUL(Ta) ^o C	Application Area
CC-BS(B)	36	1.70	18	2.15	300	±0.30 at 1450 ^o C/2 hrs	31	1450	Blast Furnace Stack Lining
CC-42D	42	1.50	16	2.25	400	±0.5 at 1450 ^o C/2 hrs	33	1500	Blast Furnace Lining
CC-45	45	1.50	21	2.20	350	±0.50 at 1500 ^o C/2 hrs	34	1450	Blast Furnace Lining, Cement Rotary Kiln, Lime Calcination Kiln, Glass Tank Furnace
CC-45D	45	1.50	16	2.30	450	±0.30 at 1450 ^o C/2 hrs	34	1500	Blast Furnace Lining, Cement Rotary Kiln, Lime Calcination Kiln, Glass Tank Furnace
CC-CB	50	1.30	18	2.35	350	±0.30 at 1500 ^o C/2 hrs	34	1530	Anode baking furnace
CC-CHL	50	1.5	9	2.42	700	-	-	1550	Chlorinator
CC-55D	55	1.50	18	2.40	500	±0.50< at 1450 ^o C/2 hrs	35	1520	Blast Furnace Lining, Cement Rotary Kiln, Lime Calcination Kiln, Glass Tank Furnace
CC-HIAL59	59	1.20	18	2.50	500	±0.50 at 1450 ^o C/2 hrs	36	1600	BF hot blast main, Glass tank furnace
CC-HIAL 50	50	1.10	18	2.40	400	±0.5 at 1450 ^o C/4 hrs	34	1520	Anode baking furnace

CC-AL65-SIC	65	1.50	12	2.65	400	-	36	1650	Torpedo Ladle
CC 45B	45	3.5	22	2.25	300	±1.5 at 1350°C/2 hrs	33	1350	Cement Plants
CC 50B	50	3.5	22	2.30	350	±1.5 at 1400°C/2 hrs	33	1370	Cement Plants
CC-60B LF	60	2.50	22	2.45	450	±2.0 at 1450°C/2 hrs	35	1420	-
CC-60B	60	3.00	22	2.40	400	±2.0 at 1450°C/2 hrs	34	1400	-
CC-62	62	1.50	22	2.40	350	±0.40 at 1500°C/2 hrs	36	1500	Blast Furnace Stove Checkers, BF lining
CC-62D	62	1.20	16	2.50	600	±0.20 at 1500°C/2hrs	36	1550	Blast Furnace Hearth & tuyere
CC-HIAL 62	62	1.2	18	2.52	500	±0.3 at 1500°C/2hrs	36	1600	Blast furnace checkers
CC-70	70	1.5	20	2.60	500	±0.3 at 1500°C/2hrs	36	1550	Rotary kiln Lining
CC-Mul-70	70	0.80	20	2.50	500	±0.20 at 1550°C/2hrs	36	1700	Blast Furnace Hearth & Tap hole, Glass Tank Furnace
CC-Mul-70(F)	70	0.5	17	2.55	600	±0.20 at 1550°C/2hrs	36	1720	Blast Furnace Hearth & Tap hole, Glass Tank Furnace
CC-70B (LF)	70	2.5	20	2.60	500	±3.0 at 1600°C/2hrs	36	1480	EAF Roof, Ladle
CC-70B	70	3.0	22	2.55	450	±3.0 at 1450°C/2hrs	35	1440	EAF Roof
CC-80B (LF)	80	2.5	20	2.70	500	±3.0 at 1600°C/2hrs	37	1500	EAF Roof
CC-80B	80	3.0	22	2.70	500	±3.0 at 1600°C/2hrs	35	1460	EAF Roof
CC-85CBC	84	1.5	20	2.70	700	±0.5 at 1500°C/2hrs	37	1580	Aluminium Melting & Holding Furnace
CC-85DG	85	1.5	20	2.90	500	±0.5 at 1500°C/2hrs	37	1650	Torpedo Ladle lining
CC-88X	88	2.0	18	2.85	800	±0.5 at 1500°C/2hrs	37	1580	Reheating furnace hearth
CC-90XD	90	0.5	18	2.92	600	±0.2 at 1500°C/2hrs	38	1700	Carbon black reactor

CC-95	95	0.5	22	3.00	600	±0.2 at 1500°C/2hrs	38	1700	Secondary Steel making Vessel, chemical, petrochemical & Fertilizer application
CC-99C	99	0.1	18	3.00	750	±0.3 at 1500°C/2hrs	38	1700	Secondary Steel making Vessel, chemical, petrochemical & Fertilizer application

Note : (i) The above data related to pressed bricks Only. However for hand moulding shapes, A.P., B.D. & C.C.S may vary upto 15%

(ii) A.P & CCS values are arithmetic mean of individual results.

(iii) Size tolerance ± 1.5 % or ± 2mm whichever is greater.

FIRE CLAY AND HIGH ALUMINA BRICKS FOR NON-RECOVERY COKE OVEN

Products	Al ₂ O ₃ %	Fe ₂ O ₃ %	A.P %	CCS Kg/CM ²	PLC %	RUL (Ta) °C	PCE (°C)
CC-NRC-(40)	38.0	2.0	24	250	+0.1 -0.5	1350	1740
CC-NRC-(50)	48.0	1.5	22	400	+0.1 -0.4	1420	1750
CC-NRC-(55)	55.0	1.5	22	450	+0.1 -0.4 (1500°C/2 hrs)	1470	1770
CC-NRC-(65)	65.0	1.5	23	500	+0.1 -0.4 (1500°C/2 hrs)	1500	1790

Grading : 95% min. will pass through maximum grain size indicated.

FIRE CLAY AND HIGH ALUMINA CERAMIC SETTING MORTARS

Products	Setting	Sintering Temp. (°C)	Grading (mm)	Application Temp. (°C)	Al ₂ O ₃ %	Fe ₂ O ₃ %	PCE (SK)	Application Area
CC-HGM	Ceramic	1300	0-0.5	1400	33	2.5	32-33	Laying HG Bricks
CC-45M	Ceramic	1350	0-0.5	1450	42	2.0	33	Laying 42-45% Alumina Bricks
CC-60M	Ceramic	1350	0-0.5	1500	60	2.0	35	Laying 50-60% Alumina Bricks
CC-70M	Ceramic	1350	0-0.5	1550	70	2.0	35	Laying 70% Alumina Bricks
CC-mul-70M	Ceramic	1400	0-0.5	1600	70	1.5	36	Laying Mullite Bricks
CC-80M	Ceramic	1400	0-0.5	1650	80	2.5	36	Laying 80% Alumina Bricks
CC-90M	Ceramic	1400	0-0.5	1700	90	2.0	36	Laying 90% Alumina Bricks

Grading : 95% min. will pass through maximum grain size indicated.

FIRE CLAY AND HIGH ALUMINA CHEMICAL SETTING MORTAR

Products	Setting	Sintering Temp. (°C)	Grading (mm)	Application Temp. (°C)	Al ₂ O ₃ %	Fe ₂ O ₃ %	PCE (SK)	Application Area
CC-set-50 (F)	Air	1100	0-0.5	1550	50	4	32	Laying 45-50% alumina bricks
CC-set-50 (N)	Air	1100	0-1	1550	50	4	32	Laying 45-50% alumina bricks

Grading : 95% min. will pass through maximum grain size indicated.

FIRE CLAY AND HIGH ALUMINA PLASTIC MASSES

Products	Setting	Sintering Temp. (°C)	Grading (mm)	Application Temp. (°C)	Al ₂ O ₃ %	Fe ₂ O ₃ %	PCE (SK)	Application Area
CC-plast-50	Chemical	1100	0-5	1600	50	1.0	35	Incinerators for medium & high temperature applicaton with high strength at intermediate temperature
CC-plast-80	Chemical	1100	0-5	1750	80	1.5	38	Steel & Aluminium Furnace
CC-plast-90	Chemical	1100	0-5	1750	88	0.5	38	Silver Melting furnace & Acid regeneration plant

FIRE CLAY AND HIGH ALUMINA CASTABLES

Products	Al ₂ O ₃ %	Fe ₂ O ₃ %	B.D gm/cc	Cold Crushing Strength (Kg/Cm ²)			PLC %	PCE (°C)	Grain Size (mm)
				Dried at 110°c/24 hrs	Fired at 1400°c/3 hrs	Fired at 1500°c/3 hrs			
Champcast-FH-14	40	2.5	1.9	250	350	-	±1.5 (1400°c/3h)	1580	0-5
Champcast-FH-45	45	4	2.1	250	350	-	±1.0 (1400°c/3h)	1580	0-5
Champcast-FH-70	70	5	2.5	350	450	-	±1.0 (1400°c/3h)	1680	0-5
Champcast-FH-50	50	1.5	2.1	350	250	400	±1.0 (1500°c/3h)	1660	0-5
Champcast-FH-50 PLUS	50	1	2.1	500	350	500	±1.0 (1500°c/3h)	1700	0-5
Champcast-FH-60	60	1	2.2	350	250	450	±1.5 (1500°c/3h)	1680	0-5
Champcast-FH-60 PLUS	60	1	2.2	500	350	500	±1.0 (1500°c/3h)	1760	0-5
Champcast-FH-70	70	1.5	2.5	500	300	550	±1.5 (1500°c/3h)	1760	0-5
Champcast-FH-80	80	1.5	2.6	550	300	550	±1.5 (1500°c/3h)	1780	0-5
Champcast-FH-90	88	1.5	2.75	550	300	550	±1.5 (1500°c/3h)	1780	0-5
Champcast-FH-90 PLUS	90	1.0	2.8	600	300	550	±1.5 (1550°c/3h)	1800	0-5

Grading : 95% min. will pass through maximum grain size indicated.