

FIRE CLAY & HIGH ALUMINA BRICKS

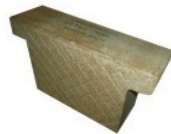
Product Name	Chemical Analysis (wt%)		Apparent Porosity (%)	Bulk Density (g/cc) Min.	CCS (kg/cm ²)	PLC (%)	PCE (°C/OC) Min.	RUL (T _a °C)	Application Area
	Al ₂ O ₃	Fe ₂ O ₃							
Mahakoshal 30D	28-31	1.7-2.2	13-18	2.10	400-700	±0.5 at 1300 ⁰ C/2h	-	1330-1360	Back up of Aluminium Pot Furnace and other applications.
Mahakoshal 40	36-40	2.5-3.5	17-22	2.15	350-550	-0.8 to 0.3 at 1400 ⁰ C/2h	1659/29	1350-1400	Cement Preheater, Cyclone, Silicate Furnace & other moderate heat applications.
Mahakoshal 40S	38-41	1.8-2.5	16-21	2.20	400-600	-1.0 to 0.3 at 1450 ⁰ C/2h	1665/30	1370-1420	Special bricks for Cement Preheater & Cyclone.
Mahakoshal 42D	41-43	1.3-1.7	15-18	2.25	450-650	-0.6 to 0.2 at 1450 ⁰ C/2h	1717/32	1450-1480	Dense brick for Blast Furnace & Anode Baking Furnace (ABF)
Mahakoshal 45	42-45	2.5-3.5	17-22	2.23	400-600	-0.8 to 0.3 at 1400 ⁰ C/2h	1665/30	1360-1410	Cement Preheater, Cyclone, Silicate Furnace & other moderate heat applications.
Mahakoshal 45S	42-46	1.8-2.3	16-21	2.25	400-600	-0.8 to 0.3 at 1450 ⁰ C/2h	1683/31	1390-1440	Special purpose Cement Preheater, Cyclone, Chemical Plants, Sulphur Furnaces, Lime Kiln & Glass Tank Furnace.
Mahakoshal 45D	44-48	1.2-1.5	14-18	2.35	450-700	-0.5 to 0.2 at 1450 ⁰ C/2h	1743/33	1460-1500	Blast Furnace, Preheating Zone of Cement Rotary Kiln, Lime Kiln & Glass Tank Furnace.
Mahakoshal RW	-	-	17-21	2.25	400-600	-1.0 to 0.2 at 1450 ⁰ C/2h	1683/31	1390-1440	Reheating Furnace Wall.
Mahakoshal 50	47-50	2.6-3.5	17-21	2.32	450-650	-0.8 to 0.4 at 1450 ⁰ C/2h	1717/32	1400-1450	Preheating Zone of Cement Rotary Kiln & Reheating Furnace Wall.
Mahakoshal 50S	47-50	1.8-2.2	16-21	2.30	450-650	-1.0 to 0.3 at 1450 ⁰ C/2h	1717/32	1400-1450	Dense brick for Petro-Chemicals, Fertilizer Plants & Anode Baking Furnace.
Mahakoshal RR	-	-	16-22	2.35	450-650	-0.5 to 1.0 at 1450 ⁰ C/2h	1743/33	1430-1480	Reheating Furnace Roof.
Mahakoshal 55	52-55	2.9-3.9	17-22	2.42	450-650	-0.5 to 1.0 at 1450 ⁰ C/2h	1743/33	1400-1440	Preheating Zone of Cement Rotary Kiln & Reheating Furnace Wall.
Mahakoshal 55S	52-56	1.7-2.2	16-21	2.35	500-700	-0.8 to 0.3 at 1500 ⁰ C/2h	1763/34	1450-1500	Reheating Furnace Roof & Petro-Chemicals.
Mahakoshal SILL	56-59	1.0-1.5	17-21	2.35	400-600	±0.7 at 1500 ⁰ C/2h	1804/36	1500-1540	Glass Tank Furnace & Frit Furnace.
Mahakoshal 60	57-60	3.4-4.2	17-22	2.50	550-800	-0.4 to 2.0 at 1450 ⁰ C/2h	1785/35	1420-1450	Reheating Furnace Wall, Ladle Back up.
Mahakoshal 60L	57-61	2.8-3.8	17-22	2.45	500-800	-0.2 to 2.2 at 1500 ⁰ C/2h	1785/35	1430-1470	Reheating Furnace Wall, Ladle Back up.
Mahakoshal 60S	58-61	1.7-2.2	16-21	2.45	500-800	-0.4 to 0.8 at 1500 ⁰ C/2h	1804/36	1470-1510	Sulphur Furnace, Alaki Resistant Bricks For Cement Rotary Kiln & ladle Back up.
Mahakoshal 60M	59-61	0.9-1.1	14-18	2.45	600-800	±0.5at 1600 ⁰ C/2h	1820/37	1630-1670	Blast Furnace Stove Checkers, Solid Wall Bricks & Glass Tank Furnace.
Mahakoshal 62DB	61-63	1.2-1.7	14-18	2.45	500-800	±0.8 at 1500 ⁰ C/2h	1785/35	1500-1530	Blast Furnace Stove Checkers, Solid Wall Bricks & Glass Tank Furnace.
Mahakoshal 62D	61-64	1.2-1.5	13-16	2.50	600-900	±0.5 at 1500 ⁰ C/2h	1804/36	1500-1550	Blast Furnace Hearth, Non-Recovery Coke Oven, Glass Tank Furnace & Frit Furnace.
Mahakoshal 62BRN	62-64	0.9-1.2	12-15	2.50	650-900	±0.2 at 1500 ⁰ C/2h	1820/37	1500-1550 at 4kg/cm ²	Blast Furnace Hearth, Non-Recovery Coke Oven, Glass Tank Furnace.
Mahakoshal 70N	64-67	3.5-4.4	17-23	2.55	500-800	0.5 to 2.5 at 1450 ⁰ C/2h	1804/36	1440-1470	Boiler, Cupola & Steel Foundry
Mahakoshal 70	67-70	3.4-4.0	17-22	2.60	600-900	0.3 to 2.5 at 1450 ⁰ C/2h	1804/36	1460-1480	Boiler, Cupola, Steel Foundry & Reheating Furnace.
Mahakoshal 70S	67-70	2.8-3.2	17-22	2.60	600-900	0.5 to 3.0 at 1500 ⁰ C/2h	1804/36	1460-1480	Burning Zone of Cement Rotary Kiln & Steel Ladle.
Mahakoshal 70L	67-70	2.4-2.8	16-21	2.55	600-800	0.5 to 2.5 at 1500 ⁰ C/2h	1804/36	1460-1490	Burning Zone of Cement Rotary Kiln & Steel Ladle.
Mahakoshal 70/20	68-71	1.8-2.2	16-21	2.55	600-900	0.2 to 2.0 at 1500 ⁰ C/2h	1804/36	1470-1500	Burning Zone of Cement Rotary Kiln & Steel Ladle.

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Mahakoshal 70LI	68-72	1.4-1.8	16-21	2.55	600-900	-0.2 to 2.0 at 1500 ⁰ C/2h	1820/37	1500-1530	Burning Zone of Cement Rotary Kiln, Lime Kiln & Steel Ladle.
Mahakoshal 70M	69-72	0.4-0.8	15-18	2.55	600-900	-0.2 to 0.5 at 1600 ⁰ C/2h	1820/37	1650-1700	Blast Furnace Hearth & Taphole, Lime Kiln, Glass Tank Furnace & Non-recovery Coke Oven.
Mahakoshal 75	71-75	2.8-3.5	17-22	2.65	600-900	0.3 to 3.0 at 1500 ⁰ C/2h	1804/36	1470-1490	Blast Furnace Hearth, Lime Kiln, Glass Tank Furnace & Non-recovery Coke Oven.
Mahakoshal 80S	74-77	2.8-3.5	17-22	2.72	700-950	-0.5 to 2.5 at 1550 ⁰ C/2h	1820/37	1470-1500	EAF Roof, Steel Rolling Mill & Steel Ladle.
Mahakoshal 80L	77-80	2.2-2.7	17-22	2.72	700-900	-0.5 to 2.5 at 1550 ⁰ C/2h	1820/37	1490-1520	EAF Roof, Steel Rolling Mill, Steel Ladle & other high heat duty special applications.
Mahakoshal 80	78-81	1.5-2.0	15-19	2.75	750-1000	0.5 to 1.2 at 1550 ⁰ C/2h	1820/37	1520-1550	EAF Roof, Steel Rolling Mill, Steel Ladle & other high heat duty special applications.
Mahakoshal 80P	78-81	1.5-2.0	14-18	2.80	800-1100	0.5 to 1.2 at 1550 ⁰ C/2h	1820/37	1520-1550	Phosphate-bonded bricks for Reheating Furnace Bottom & other high Abrasion Resistant applications.
Mahakoshal 85	82-85	1.4-1.8	15-19	2.80	750-1000	-0.3 to 1.0 at 1550 ⁰ C/2h	1850/38	1540-1580	Special high temperature, high abrasion & spalling resistant applications like Torpedo Ladle etc.
Mahakoshal 85P	82-85	1.4-1.8	13-17	2.85	850-1200	-0.3 to 1.0 at 1550 ⁰ C/2h	1850/38	1540-1580	Non-wetting Phosphate-bonded bricks for Aluminium Melting & Holding Furnace, Reheating Furnace Bottom etc.
Mahakoshal 88RB	86-89	1.0-1.8	12-16	2.90	900-1200	-0.2 to 0.5 at 1500 ⁰ C/2h	1820/37	1580-1620	Reheating Furnace Bottom (specially Coal-fired).
Mahakoshal 90	88-92	0.4-0.8	12-16	3.05	1000-1300	± 0.5 at 1550 ⁰ C/2h	1850/38	1620-1660	Petro-chemicals, Fertilizers, Carbon Black Reactor & Blast Furnace Hearth.
Mahakoshal SIC85	SiC = 80-85	0.5-1.0	14-17	2.50	600-800	-0.2 to 0.5 at 1400 ⁰ C/2h	-	1620-1680	Ferro-Alloy Industries, Copper Melting Furnace (in Burner Block & Impact Pad areas), Boiler (for very high temperature & Reducing Atmosphere)
Mahakoshal SIC88	SiC = 84-88	0.5-0.8	14-17	2.50	600-900	-0.2 to 0.5 at 1400 ⁰ C/2h	-	1650-1700	Ferro-Alloy Industries, Copper Melting Furnace (in Burner Block & Impact Pad areas) & Boiler (for high temperature & Reducing Atmosphere applications).



Hanger Brick



Shoulder Brick



Pit Brick (Riedhammer)



SD Well Block



Silicon Carbide Lintel Block



Silicon Carbide Well Block



Checkers

NOTES

- 1) Size Tolerance: ± 1.5% or ± 2.0mm whichever is greater
- 2) Mahakoshal does not warrant the accuracy, fitness for purpose or updates of any information disclosed herein. Specification of the products may change based on the geographical area to be supplied.
- 3) Data shown are based on average results of production samples and are subject to normal variation during individual tests.
- 4) Max. and Min. values are given separately for testing purposes.
- 5) The information contained herein are exclusive property of Mahakoshal.