

Insulation Bricks

Product	Service temperature	Refractoriness	Bulk Density	Apparent Porosity	Cold Crushing Strength	Thermal conductivity at 600 °C mean temperature	Al ₂ O ₃	Fe ₂ O ₃
	°C	Orton	gm/cm ³	%	kg/cm ²	W/mK	%	%
Maithan LW	1200	30	1.10	55.0	30	0.45	30.0	2.5
Maithan LWS	1200	30	1.30	50.0	70	0.58	30.0	2.5
Maithan HSI	1300	31	1.60	45.0	150	0.70	35.0	2.5
Maithan CFI	1250	30	0.80	65.0	15	0.35	30.0	2.5
Maithan CFS	1250	30	0.65	70.0	10	0.23	30.0	2.5
Maithan HFI	1300	30	0.90	60.0	20	0.40	30.0	2.5
Maithan HFK	1400	32	1.10	55.0	40	0.50	40.0	2.5
Maithan HFK HS	1400	32	1.30	50.0	100	0.60	40.0	2.0
Maithan HF 60S	1500	35	1.60	45.0	150	0.70	58.0	1.5

The above figures are typical data as determined through Indian Standard Testing Methods and pertains to most commonly produced commercial sizes. These will be subject to reasonable variations for tailor made and non-standard sizes. Materials can also be manufactured to suit customer's specifications.

Special Insulation Bricks

Product	Classification temperature	Bulk Density	Cold Crushing Strength	Thermal conductivity at mean temperature of				Permanent Linear Change on reheating		Al ₂ O ₃	Fe ₂ O ₃
				W/mK				%			
	°C	gm/cm ³	kg/cm ²	400°C	600°C	800°C	1000°C	for 24 hours		%	%
Maithan HF22	1250	0.65	17	0.24	0.27	0.28	0.30	1200°C	± 0.5	40.0	0.70
Maithan HF23	1300	0.55	10	0.18	0.20	0.22	0.24	1250°C	± 0.6	42.0	0.65
Maithan HF25	1400	0.80	40	0.32	0.36	0.40	0.45	1350°C	± 1.5	38.0	0.80
Maithan HF26	1450	0.70	16	0.25	0.27	0.29	0.31	1350°C	± 0.5	58.0	0.70
Maithan HF28	1550	1.00	35	0.41	0.43	0.44	0.45	1450°C	± 0.7	60.0	1.00
Maithan HF28S	1550	0.90	40	0.39	0.41	0.47	0.43	1450°C	± 0.5	62.0	0.80
Maithan HF30	1650	1.10	40	0.46	0.51	0.56	0.60	1550°C	± 0.5	72.0	0.80
Maithan HF32	1700	1.30	60	0.58	0.63	0.67	0.70	1600°C	± 0.5	72.0	0.60

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