



THE QUALITY OF INSULATING BRICK

Energy conservation is the main subject for the industrial kilns and furnaces. Insulating bricks are generally classified into three(3) grades,

e.g., A. B. C., of which the selection is made according to the location and temperature used.

Typical Properties

Brand		A-1	A-2	A-3	A-4	A-5	A-6	A-7	B-1
Properties									
Temp. at which the re-heat shrinkage rate will not exceed 2%		900	1000	1100	1200	1300	1400	1500	900
Bulk Density(g/cm ³)		0.5	0.5	0.5	0.55	0.7	0.75	0.75	0.75
Cold Crushing Strength (kg f/cm ²)		5	5	5	6	7	8	10	12
Heat Conductivity 350±10°C (Kcal/m-h.°C)		0.15	0.16	0.17	0.19	0.20	0.23	0.26	0.20
Chemical Composition(%)	Al ₂ O ₃	27	28	30	32	33	38	48	27
	SiO ₂	67	66	65	63	61	55	47	67

Brand		B-2	B-3	B-4	B-5	B-6	B-7	C-1	C-2	C-3
Properties										
Temp. at which the re-heat shrinkage rate will not exceed 2%		1000	1100	1200	1300	1400	1500	1300	1400	1500
Bulk Density(g/cm ³)		0.75	0.8	0.82	0.86	0.9	1.0	1.1	1.2	1.25
Cold Crushing Strength (kg f/cm ²)		12	18	18	20	25	30	45	60	75
Heat Conductivity 350±10°C (Kcal/m-h.°C)		0.21	0.23	0.26	0.27	0.31	0.36	0.35	0.44	0.52
Chemical Composition(%)	Al ₂ O ₃	29	30	31	33	38	48	33	40	48
	SiO ₂	65	64	63	61	55	47	61	54	46