

INSULATING FIREBRICK

QUALITY	C-20	C-23	C-26	C-28	C-30	C-32
ASTM C155-97 Classification	20	23	26	28	30	32
ISO 2245 Classification		125-0.5-L	140-0.8-L	150-0.9-L	160-1.9-L	170-1.2-L
Classification Temperature °C	1093	1260	1430	1540	1650	1760
°F	2000	2300	2600	2800	3000	3200
Density Kg/m ³	480	520	810	880	1030	1250
ASTM C-134-95 Lbs/ft ³	30.0	32.5	50.6	55.0	64.3	78.0
Cold Crushing Strength MPa	1.1	1.2	1.6	2.1	2.5	3.5
ASTM C-93-84 Lbs/in ²	160	170	230	300	360	510
Modulus of Rupture MPa	0.8	0.9	1.1	1.3	2.1	2.1
ASTM C-93-84 Lbs/in ²	116	130	160	190	300	300
Permanent Linear Change, % ASTM C210-85	0	0.5	0.4	1.0	0.9	0.9
Hot Load Test 0.034MPa (4.9 psi) ASTM C16-85		1100°C 0.1				
Hot Load Test 0.07MPa (10 psi)		1100°C 0.9	1260°C 0.2	1320°C 0.2	1370°C 0.5	1370°C 0.2
Reversible Thermal Expansion, % at 1100°C (2000°F)	0.45	0.5	0.7	0.8	0.9	1.1
Thermal Shock Resistance Cycles		30	30	30	30	30
Thermal Conductivity (W/m-k) ASTM C182-88						
200°C	0.15					
400°C	0.17	0.18	0.27	0.32	0.41	0.49
600°C	0.19	0.19	0.29	0.34	0.43	0.50
800°C	0.21	0.21	0.31	0.36	0.44	0.51
1000°C		0.23	0.33	0.38	0.45	0.53
1200°C			0.35	0.41	0.47	0.56
Al ₂ O ₃ , %	51	51	58	67	73	77
Fe ₂ O ₃ , %	1.0	0.7	0.7	0.6	0.5	0.4

Above data is based on control test results. Individual test results may vary, therefore this data may not be used for specifications.

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