



KT Refractories US Company

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Insulating Fire Bricks Data Sheet:

Description	Gradea23	Grade 26	Grade 28	Grade 30
Chemical Composition (%)				
Al ₂ O ₃	42	56	67	73
SiO ₂	55	41	30	24
Fe ₂ O ₃	≤1	≤0.8	≤0.7	≤0.7
K ₂ O + Na ₂ O	1.1	1.7	1.7	1.7
Physical Properties				
Density (kg/m ³)	600	800	900	1000
Classification Temperature (°C)	1300	1400	1500	1550
Cold Crushing Strength (MPa)	1.2	1.8	2.5	3.3
Modulus of Rupture (MPa)	1	1.7	2.3	3.1
Permanent Linear Change(%)x 24hrs	≤0.6	≤0.6	≤0.8	≤0.9
Thermal Expansion(%)1000°C	0.5	0.52	0.52	0.53
Thermal Conductivity (W/m.k)				
350 °C	0.18	0.25	0.33	0.38
400 °C	0.2	0.29	0.35	0.4
600 °C	0.24	0.32	0.37	0.42