

2.1 Fire Mullite Insulation Bricks

Main Properties	JM-23	JM-26	JM-28	JM-30	JM-32
ISO 2245 Classification	125-0.5-L	140-0.8-L	150-0.9-L	160-1.0-L	170-1.2-L
Classification Temperature (CT) °C	1260	1430	1540	1650	1760
Bulk Density kg/m ³	480	780	880	1020	1250
Modulus Of Rupture MPa	0.9	1.4	1.6	2	2.1
Cold Crushing Strength MPa	1.1	1.6	2.1	2.5	3.5
Reheating Linear Change (CT-30°C) Max. %	0.8	0.6	0.9	0.9	0.9
Reversible Linear Thermal Expansion Max. %	0.5	0.7	0.8	0.9	1.1
Creep Transmogrification After 90min Max. %	0.2				
		0.3	0.1		
			0.3	0.1	
				0.5	0.2
Thermal Conductivity Rate At Mean Temperature Max. w/m.k	0.14	0.27	0.32	0.41	0.49
	0.16	0.29	0.34	0.43	0.5
	0.18	0.31	0.36	0.44	0.51
	0.2	0.33	0.38	0.45	0.53
		0.35	0.41	0.47	0.56
				0.6	
Chemical Composition					
Al ₂ O ₃ %	37	58	67	73	77
SiO ₂ %	45	39	31	25	21
Fe ₂ O ₃	0.7	0.8	0.6	0.5	0.4
TiO ₂	1.2	0.3	0.7	0.5	0.4
CaO	1.5	0.3	0.2	limited	limited
MgO	0.3	0.1	0.1	limited	0.1
Na ₂ O+K ₂ O	1.1	1.7	0.9	0.9	0.9

