



Insulating Fire Brick

Effective: Mar-16		T 140-12
Classification Group	ISO 2245 ASTM C 155	140-1.2
Classification Temperature	°C	1430
Density	ASTM C 134 g/cm ³	1.20
Cold Crushing Strength	Flat ASTM C 133 MPa Edge	10.0
Cold Modulus of Rupture	ASTM C 133 MPa	5.0
Permanent Linear Change	ASTM C 210 % 24h soak at Temperature, °C	-0.9 1400
Linear Thermal Expansion	% Reversible, Max.	1.20
Deformation under Hot Load	ASTM C 16 % 69 kPa load, 1½h at Temperature, °C	-0.1 1204
Thermal Conductivity	ASTM C 182 W/(mK) Mean Temperature, °C	
	200	
	400	0.41
	600	0.44
	800	0.48
	1000	0.51
	1200	0.55
Chemical Analysis	%	
	Al ₂ O ₃	50.0
	SiO ₂	46.7
	Fe ₂ O ₃	1.0
	TiO ₂	1.0
	CaO + MgO	0.3
	Na ₂ O + K ₂ O	1.0
Dimensional Tolerances	Standard Square	
	Dimensions mm	± 1.0
	Out of Squareness %	≤ 0.5

The above physical and chemical properties of Insulating Fire Brick represent values obtained on standard squares in accordance with accepted test methods and are subject to normal manufacturing variations. This information is supplied as a technical service and may change without notice. Results should not be used for specification purposes, unless agreed with seller.

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