Insulating Fire Bricks

Certified quality
Local stock
Engineered to perform

INSULCON
LEADER IN HIGH TEMPERATURE SOLUTIONS

Overview

The Insulcon group – Your Exclusive Partner for Insulating Fire Bricks in Europe.

Certified quality. Local stock. Engineered to perform.

For decades, Insulcon has supplied high-quality Insulating Fire Bricks (IFB) for demanding refractory applications. In partnership, we now offer exclusive distribution of Insulating Fire Bricks across Europe, combining certified performance (I23, I26, I28), reliable availability through Insulcon Group warehouses, and hands-on engineering support to ensure the right brick is applied the right way.

Key pillars:

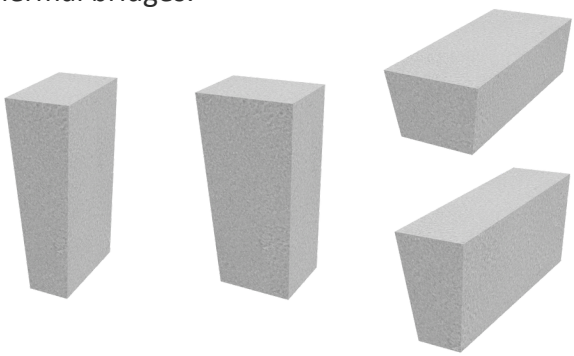
- **Certified performance**: European test certificates for I23, I26, I28
- **Availability**: Stock across Insulcon Group locations
- **Engineering:** Application advice, design support, installation guidance
- **Sustainability:** Efficient production and recycled raw materials

Refractory Mortars

To ensure reliable installation of our Insulating Fire Bricks, Insulcon also supplies matching refractory mortars.

Customizing & Engineering

Insulcon provides application engineering to specify the most suitable IFB type and geometry. Beyond standard bricks, we supply machined shapes, tapers, arches, curved/keys, and angle cuts to reduce installation time and thermal bridges.



THE INSULCON GROUP

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We highly value quality, reliability and problem solving. We think along with the customer to engineer a sustainable solution that ensures safety, saves energy and reduces CO2 emissions.

Our Insulating Fire Bricks (IFB) and installation mortars are tested to European standards and certified for performance.

Insulating Fire Bricks				I23	I23C	I26	I28
Properties Classification					cast 23		
Group	ASTM C155			23	23	26	28
	ISO 2245			125-0.6-L	125-0.5-L	140-0.8-L	150-0.9-L
Classification Temperature			°C	1260	1260	1430	1540
Density	ASTM C134		g/cm3	0.59	0.48	0.8	0.88
	Guaranteed value			≤ 0.65	≤ 0.53	≤ 0.86	≤ 0.95
Cold Crushing Strength	ASTM C133		Mpa	1.2	1.5	2.2	2.5
	Guaranteed value			≥ 0.9	≥1.2	≥ 1.7	≥ 2.0
Modulus of Rupture	ASTM C133		Mpa	1.0	0.8	1.5	1.6
	Guaranteed value			≥ 0.7	≥ 0.6	≥ 1.2	≥ 1.3
Permanent Linear Change (value/ guaranteed)	ASTM C210		%	-0.1 / ≤ -1.5	-0.1 / ≤ -1.0	-0.2 / ≤ -1.0	-0.4 / ≤ -1.2
after 24h soak at Temperature (value/ guaranteed)			°C	1230 / 1230	1230/1230	1400/1400	1510/1510
Thermal Conductivity	ASTM C182						
Mean Temperature	**°C**		**W/mk**				
	200			0.16	0.10	-	-
	400			0.19	0.12	0.21	0.31
	600			0.23	0.15	0.23	0.33
	800			0.28	0.17	0.28	0.35
	1000			0.33	0.19	0.33	0.38
	1200			-	-	0.36	0.41
Chemical Analysis		Al2O3	%	45/≥42	45/≥43	52.0/≥50	64.0/≥62
value / guaranteed		SiO2		49.6	48.0	44.0	33.2
		Fe2O3		1.0/≤1.2	0.65	0.9/≤1.2	0.7/≤1.0
		TIO2		1.0	1.0	1.0	0.7
		CaO+MgO		1.6	3.0 max	0.7	0.5
		Na2O+K2O		1.8	0.85	1.5	0.9
Dimensional Tolerances	Length/Width/Thickness		mm	+/-1	+/-1	+/-1	+/-1

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