

## Insulating Fire Bricks

		T 23C	T 23	T 23HS	T 26A	T 26	T 26-60	T 28	T 30	T 32
<b>Classification Group</b>	ISO 2245 ASTM C 155	125-05- L	125-0.6- L	125-0.65-L	140-0.8-L	140-0.8- L	140-0.8-L	150-0.9-L	160-1.00- L	170-1.2-L
<b>Classification Temperature (°C)</b>		23	23	23	26	26	26	28	30	32
<b>Density (g/cm<sup>3</sup>)</b>	ASTM C 134	0.49	0.60	0.65	0.80	0.80	0.80	0.90	1.00	1.30
<b>Cold Crushing Strength (MPa)</b>	ASTM C 133 Flat edge	1.3	1.5	2.2	2.4	2.5	2.0	2.5	3.5	4.0
<b>Cold Modules of Rupture (MPa)</b>	ASTM C 133	1.0	1.0	1.3	1.5	1.4	1.3	1.7	2.0	2.0
<b>Permanent Linear Change (%)</b>	ASTM C 210	-0.1	-0.1	-0.3	-0.7	-0.3	-0.3	-0.6	-0.6	0.3
	24h soak at °C	1230	1230	1230	1400	1400	1400	1510	1620	1730
<b>Linear Thermal Expansion (%)</b>	Reversible Max	0.50	0.50	0.50	0.60	0.60	0.60	0.65	0.65	0.70
<b>Deformation under Hot Load (%)</b>	ASTM C 16	0.0	-0.1	-0.1	-0.2	-0.2	-0.2	-0.1	-0.2	-0.2
	69 kPa load, 1½h at Temperature, °C	1093	1093	1093	1204	1204	1204	1204	1316	1316
<b>Thermal Conductivity (W/mk)</b>	ASTM C 182									
	Mean Temp. °C									
	200	0.13	0.15	0.18	-	-	-	-	-	-
	400	0.14	0.18	0.20	0.25	0.26	0.27	0.33	0.39	0.48
	600	0.16	0.20	0.23	0.28	0.28	0.29	0.34	0.41	0.50
	800	0.18	0.23	0.26	0.31	0.30	0.30	0.36	0.43	0.52
	1000	0.21	0.26	0.30	0.35	0.33	0.32	0.37	0.45	0.54
	1200	-	-	-	0.39	0.35	0.34	0.39	0.47	0.56
<b>Chemical Analysis(%)</b>										
	Al <sub>2</sub> O <sub>3</sub>	37.0	40.2	40.0	45.0	50.0	59.0	64.0	72.0	77.2
	SiO <sub>2</sub>	47.0	54.8	55.0	51.0	45.9	37.5	33.3	25.9	21.0
	Fe <sub>2</sub> O <sub>3</sub>	0.5	0.9	1.0	1.0	0.9	0.7	0.6	0.6	0.3
	TiO <sub>2</sub>	0.3	1.0	1.0	1.1	1.2	0.8	0.6	0.3	0.4
	CaO+MgO	13.8	1.6	1.5	0.5	0.8	0.5	0.4	0.3	0.5
	Na <sub>2</sub> O+ K <sub>2</sub> O	1.5	1.0	1.0	1.4	1.2	1.4	1.0	0.9	0.6
<b>Tolerances</b>										
	Dimensions	Mm	± 1.0	±1.0	±1.0	± 1.0	±1.0	± 1.0	± 1.0	± 1.0
	Out of Squareness	%	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5

The above physical and chemical properties of Insulating Firebricks 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 specific purposes.

For further information about one of the above mentioned Insulating Firebricks please do not hesitate to contact one of our specialists at:



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**Insulcon B.V.**  
Zilverhoek 4  
NL-4651 SP STEENBERGEN  
The Netherlands  
Tel: +31(0)167 565750  
Fax: +31(0)167 566263  
Internet: www.insulcon.com  
E-mail: info@insulcon.com



LEADER IN HIGH TEMPERATURE SOLUTIONS

**Keramab N.V.**  
Haverheidelaan 4  
B-9140 TEMSE  
Belgium  
Tel: +32 (0) 3711 0278  
Fax: +32 (0) 3711 0856  
Internet: www.keramab.com



LEADER IN HIGH TEMPERATURE SOLUTIONS

**Insulcon GmbH**  
Welserstr. 7  
D-41468 NEUSS  
Germany  
Tel: +49(0) 2131 408548-0  
Fax: +49(0) 2131 408548-7

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