



# Cost-effective Insulation for **High-temperature** Applications

## Pyrotek Ceramic Fibre Insulating Boards

Pyrotek offers a full range of products for furnace and oven manufacturers, including refractory boards, insulation and castables for high-temperature applications in multiple industries.

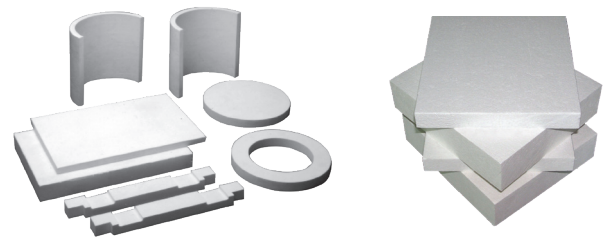
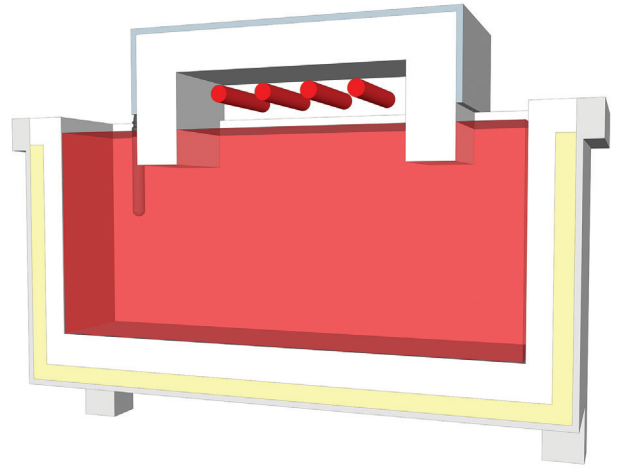
Pyrotek ceramic fibre board is a lightweight, insulating material constructed from alumina-silica fibres and binders. Its uniform density and rigidity make it well suited for high-temperature applications subject to vibration and mechanical stress.

### Benefits:

- Machinable
- Low thermal conductivity
- High temperature stability
- Resistant to thermal shock, chemical attack, erosion and corrosive agents

### Applications:

- Full-thickness refractory lining
- Insulating backup to dense, brick and castable refractories
- Furnace hot-face lining in ceramic kiln, box furnace and petrochemical furnace
- Flue and chimney linings in furnaces and kilns



### Composition:

Material	L20M	L23R	H24D
Target Density—kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	323 (20)	368 (23)	419 (26)
Temperature Grade	1260°C (2300°F)		
Melting Temperature	1760°C (3200°F)		
Operating Temperature	1150°C (2102°F)		
Green (typical) Modulus of Rupture—kPa (psi)	1379 (200)	2068 (300)	2068 (300)
Fired* Modulus of Rupture—kPa (psi)	552 (80)	2068 (300)	689 (100)
Ignition Percentage Loss (by weight) at 1000°C (1832°F)	6–7		7–8
Colour	White to Cream		Cream
Shrinkage Percentage**	<5	<5	<5
Fibre Content	100%	100%	100%
Thermal Conductivity of L20M and L23R—W/m-K	0.048 at 250°C (482°F) 0.070 at 400°C (752°F) 0.104 at 600°C (1112°F)		
Thermal Conductivity of H24D—W/m-K	0.080 at 250°C (482°F) 0.095 at 400°C (752°F) 0.130 at 600°C (1112°F)		
* Fired at 24 hours of continuous use			
** After 24 hours at the recommended operating temperature			
Note: Physical and chemical properties listed represent typical, average values obtained with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and subject to change without notice.			

Pyrotek's global network of field engineers work with OEMs, distributors and engineering firms to determine the best materials, products and designs to suit their needs.

For more information call: +1.866.797.6835 or contact your local Pyrotek application engineer.

