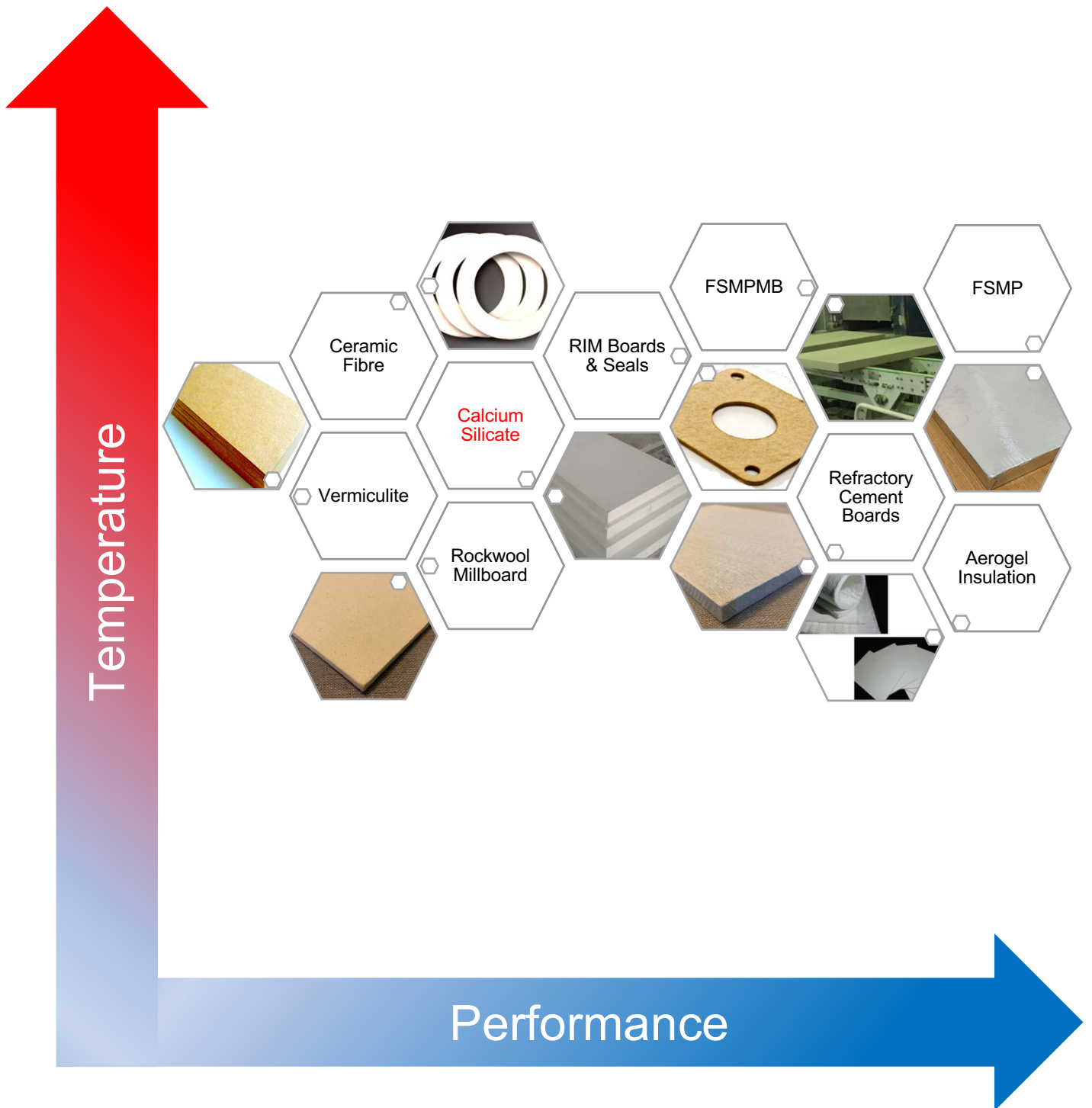


Low Density Calcium Silicate Boards & Designs

Low Cost | High Insulation | High Strength

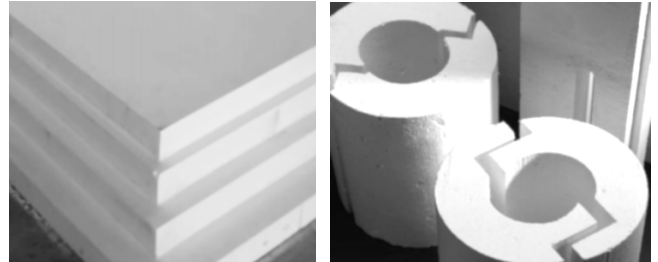


Low Density Calcium Silicate Boards & Designs

Wedge lightweight low density & medium density Calcium Silicate Boards are manufactured with Filter Press & Gel Tank Technology to achieve low density, high strength, high temperature insulation, machinability. These boards and machined ready to use designs are most suitable as thermal insulation for processes in various industrial applications.

Advantages

- Low thermal conductivity,
- Resistant to H₂, CO, CH₄, NH₃, N₂.
- Low density & lightweight
- High thermal resistance
- High mechanical strength
- Vibration resistant
- Resistant to moisture and chemicals
- Low heat storage



Applications

- High temperature insulation and heat protection
- Steel industry: smelting, heat distortion and heat treatment plants
- Ceramic industry: chamber and tunnel furnaces
- Glass industry: melting furnaces and cooling channels
- Cement industry: heat exchangers and cyclone separators
- Chemical and petrochemical industry: thermal cracking reactors and processing plants



Quality			W-LD900	W-LD1000	W-LD1100	W-MD500
Colour			White	White	White	White
Service temperature	°C		900	1000	1100	500
Bulk density	kg/m ³		245	255	255	440 - 450
Open Porosity	%		90	90	90	
Reversible thermal expansion	m/m K		5.4x10 ⁻⁶	5.4x10 ⁻⁶	5.5x10 ⁻⁶	6.0x10 ⁻⁶
Cold compressive strength	MPa		1.5	1.6	1.6	2.4-2.8
Flexural strength	MPa		0.5	0.5	0.5	1.2-2
Linear shrinkage @ Service Temperature	%		0.9	1	1	
Thermal conductivity						
	200 °C	W/m K	0.075	0.075	0.075	0.09
	400 °C	W/m K	0.105	0.105	0.105	0.105
	600 °C	W/m K	0.145	0.145	0.145	0.13
	800 °C	W/m K	0.175	0.175	0.185	0.19
Specific heat capacity at 400 °C		kJ/kg K	1.03	1.03	1.05	0.95
Protective gas-resistance			CO, NH ₃ , H ₂ , CH ₄ , N ₂ atmosphere			
Standard Sizes						
	Length	mm	1000	1000	1000	2500
	Width	mm	500	500	500	1200
	Thickness	mm	25 - 100	25 - 100	25 - 100	20 - 50