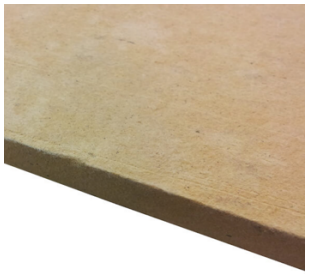
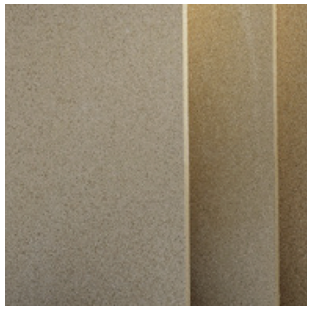
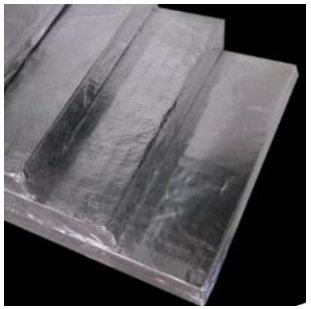
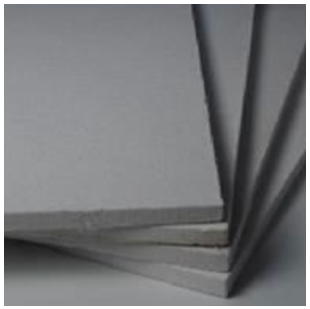
High Temperature Insulation Boards Selection Guide

A comparison of Thermo-mechanical properties, performance, and cost.

Insulation Boards	Type	Strength	Insulation Performance	Cost	Application Temperature , C	Density, Kg/M3	Thermal Conductivity, W/m-K at Mean 500 - 600 C	Flexural Strength, Mpa	Cold Compressive Strength, MPa	Shrinkage @ 1000 C, %
Wedge Millboard 1700	Hard	Very High	High	Low	1000	1000	0.12	7	21	1.68
Ceramic Fibre Boards	Soft	Low	High	Low	1000	280 - 360	0.13	0.3	NA	4
VF Boards HS-45	Soft	Low	High	Medium	1200	720	0.16	0.55	NA	1
ISOMAG 55 XCO	Hard	High	Medium	High	1000	970	0.25	6.2	6.5	
ISOMAG 70 XCO	Hard	Very High	Medium	High	1000	1200	0.29	13.1	15	1.64
Vermiculite Boards	Hard	Medium	Medium	High	1100	900	0.20	2.10	6.30	1.2
Wedge Sindanyo Board	Very Hard	High	Low	Very High	700	1750	0.49	30	115	0.36 @ 350
CalSil 1100	Soft	Low	High	Low	1050	285	0.14		1.5	1.5
CalSil 1000	Soft	Low	High	Low	950	245	0.14		2.5	1.5
Monolux 500 / MST	Hard	High	Medium	Very High	1000	750	0.22	6	18	
Monolux 800	Hard	High	Medium	Very High	1000	950	0.26	7	25	
Duratec 750	Very Hard	Very High	Low	Very High	1000	1400	0.49	23	55	
Microtherm Boards	Very Soft	Very Low	Very High	Very High	1000	280 - 360	0.032	0.3	NA	1.5
Promalight Boards	Very Soft	Very Low	Very High	Very High	1000	280 - 360	0.032	0.3	NA	1.5
Nanopoorus Boards	Very Soft	Very Low	Very High	Very High	1000	280 - 360	0.032	0.3	NA	1.5
WDS Boards	Very Soft	Very Low	Very High	Very High	1000	280 - 360	0.032	0.3	NA	1.5



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