



Caltem™



Calcium Silicate Thermal Insulation

- Available in slabs, pipe sections etc
- High quality structure
- Applied in both conventional and nuclear power stations



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Description

Caltem is a reacted hydrous 100% asbestos-free microporous calcium silicate containing well opened reinforcing fibre evenly distributed.

Forms of supply

Caltem calcium silicate is supplied preformed as flat slabs, bevelled lags, radiused and bevelled lags, half pipe sections and moulded components for the insulation of elbows, flanges and valves. It is also supplied as a plastic composition to which water is added to provide thermal insulation for infilling and for insulating irregular shapes.

Pipe sections and moulded components are available with factory-applied finishes.

Typical applications

Caltem calcium silicate is used extensively on many items of equipment and piping operating at temperatures up to 650°C in conventional and nuclear power stations, marine vessels, petrochemical plant and oil refineries and also the thermal insulation of underground piping systems. HT-grade for temperatures up to 1000°C also available on request.

Main technical properties

	Unit	Calc. Silicate	JIS A9510-84	ASTM-533-85 Type I	BS 3958 Part 2-82
Density	kg/m ³	200 - 220	< 130	240 max.	180 - 240
	lb/ft ³	12.5 - 13.75	< 8.125	15.0 max	11.25 - 15.0
Max. Serv.Temp.	°C	650	650	650	650
Thermal Conductivity at 70°C Mean Temp.	kcal/m.h°C	0.045	< 0.047	-	< 0.061
	Btu-in hft ² F	0.33	0.33	0.45	-
	w/mk	0.057	< 0.058	-	< 0.071
Bending Strength	kgf/cm ²	4.0	> 2	-	> 250 KN/m ²
	PSI	-	-	45.0 min	-
Compressive Strength	kgf/cm ²	5.10	-	-	1.6 - 2.3%
	PSI	-	-	60.0 min	-
Linear Shrinkage	%	1.4	2.0	2.0 max	2.0