

AcoustiSorb 1 - Data Sheet

as at 01/09/04



ALL INSULATION SHOULD FEEL THIS GOOD

Product Description & Typical Applications

AcoustiSorb 1 is a lightweight flexible insulation blanket designed for external lagging of industrial equipment and appliances. It is used for applications such as air conditioning ductwork - internally and externally. For internal lining, Tontine recommend a foil laminate facing. As a continuous length it has the advantage of reducing waste through being able to be cut to varying lengths. For hot water tanks it is sufficiently flexible to wrap around sharp angles and small radii with sufficient compressive strength to maintain thickness.

Physical Characteristics

Nominal Thickness (mm)	25	50
Standard Roll Dimensions	15m x 1200mm	10m x 1200mm

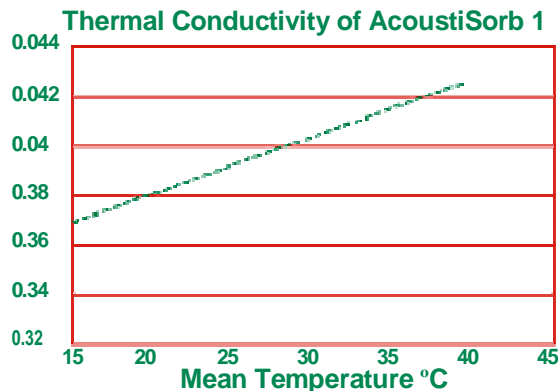
Early Fire Hazard Rating

When tested in accordance with AS1530 Part 3-1999 "Early Fire Hazard Properties of Materials", Plain AcoustiSorb 1 exhibits the following characteristics:	Ignitability	Index 0
	Spread of Flame	Index 0
	Heat Evolved	Index 0
	Smoke Evolved	Index 0-1

For further details refer to Insulation Products Material Safety Data Sheet.

Thermal Conductivity

The thermal conductivity of AcoustiSorb 1 at a mean* temperature of 20°C is 0.038 W/mK when tested in accordance with ASTM C518. Values of thermal conductivity may be obtained from the following graph.



* Mean Temperature

$$= \frac{T_1 + T_2}{2}$$

Where T1= temperature of hot side of insulation (°C)
T2= temperature of cool side of insulation (°C)

Acoustic Performance

AcoustiSorb 1 has the following sound absorption coefficients when tested to AS1045 by the Reverberation method:

Frequencies	125	250	500	1000	2000	NRC
Plain 25mm	0.12	0.39	0.65	0.76	0.83	0.65
Plain 50mm	0.28	0.60	0.83	0.91	0.91	0.80

Moisture Absorption

When tested in an atmosphere of 65% relative humidity at 20°C in accordance with British Standard 2972-1975, the moisture content of Tontine products are less than 0.1% by volume.

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Maximum Service Temperature

Compressive Strength

Specification Notes

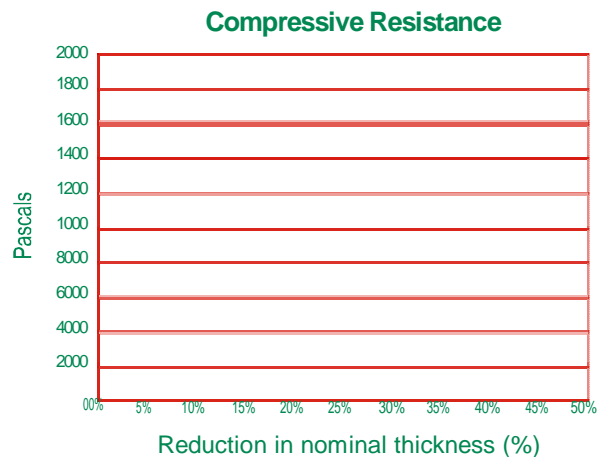
General Installation Advice



Distribution Details

The maximum service temperature for AcoustiSorb 1 is 150°C. When used with a vapour barrier facing, tolerance of the facing adhesive limits the surface temperature tolerance to 70°C.

Even after prolonged storage under compression, AcoustiSorb 1 has excellent resilience.



State:

- Product name - Tontine AcoustiSorb 1.
 - Thickness or heat loss/gain criteria.
 - Type of equipment and operating temperature range.
 - Whether a vapour barrier facing is required.
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- All forms of Tontine products can be cut with a sharp knife. Cutting with power tools is also recommended.
 - When faced with a foil laminate, AcoustiSorb 1 can be fixed to the external face of ductwork or similar surfaces by impaling on spot welded metal pins faced to the outside face of the duct at 300-450mm centres in both directions with minimum of two rows per side of duct.
 - Alternatively, where condensation is not expected, the insulation can be wrapped around the duct and held in place with 22ga galvanised wire mesh wrapped around the insulation with edges entwined together.
 - Where a vapour barrier is necessary, e.g. on air conditioning ducting, the insulation can be faced with foil and then wrapped around the vessel or duct. All joins should be sealed with a pressure sensitive tape.

We reserve the right to update information without prior consultation.

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