

AcoustiSorb 2 - Data Sheet

as at 01/09/04



ALL INSULATION SHOULD FEEL THIS GOOD

Product Description & Typical Applications

AcoustiSorb 2 is a medium weight flexible insulation designed for internal lining of air conditioning ducting. For internal lining, Tontine recommend a foil laminate facing. A continuous length as a duct liner has the advantage of reducing waste through being able to be cut to varying lengths. Other recommended uses include storage tanks, process equipment, appliance cabinets, plant rooms and acoustic baffles.

Physical Characteristics

Nominal Thickness (mm) 25 to 100mm
 Standard Dimensions Rolls 25 & 50 mm 15m x 1200/1500mm & 8m x 1200/1500mm
 Pads 25 to 100mm 2400 x 1200/1500mm

Early Fire Hazard Rating

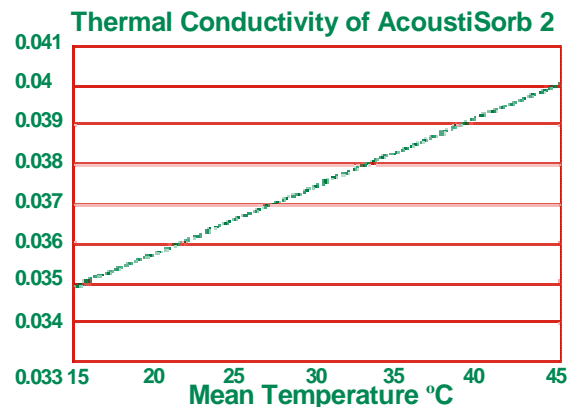
When tested in accordance with AS1530 Part 3-1999 "Early Fire Hazard Properties of Materials", Plain AcoustiSorb 2 exhibits the following characteristics:

Ignitability	Index	0
Spread of Flame	Index	0
Heat Evolved	Index	0
Smoke Evolved	Index	0-3

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

Thermal Conductivity

The thermal conductivity of AcoustiSorb 2 at a mean* temperature of 20°C is 0.0357 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 2 has the following sound absorption coefficients when tested to AS1045 by the Reverberation method:

Frequencies	125	250	500	1000	2000	NRC
Plain 25mm	0.13	0.42	0.71	0.89	0.93	0.75
Plain 50mm	0.28	0.65	0.95	1.06	0.99	0.90
Perf Foil 50mm	0.37	0.75	1.07	1.08	0.94	0.95
Al Foil Trilam (50 mm)	0.26	0.68	1.10	0.92	0.60	0.80
Plain 75mm	0.47	0.91	1.05	1.02	1.08	1.00
Plain 100mm	0.67	1.08	1.16	1.11	1.12	1.10

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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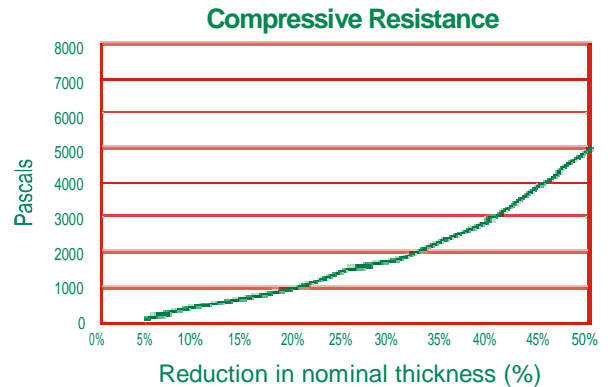
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Maximum Service Temperature

The maximum service temperature for AcoustiSorb 2 is 150°C. When used with a vapour barrier facing, plain or perforated, tolerance of the facing adhesive limits the surface temperature tolerance to 70°C.

Compressive Strength

Even after prolonged storage under compression, AcoustiSorb 2 has excellent resilience.



Specification Notes

State:

- Product name - Tontine AcoustiSorb 2.
- Thickness or heat loss/gain criteria.
- Type of equipment and operating temperature range.
- Whether facing is required.

General Installation Advice

- All forms of Tontine products can be cut with a sharp knife. Cutting with rotary cutters is also recommended.
- When faced with a foil laminate, AcoustiSorb 2 can be fixed to the internal 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.



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