

AcoustiSorb 3 - Data Sheet

as at 01/09/04



ALL INSULATION SHOULD FEEL THIS GOOD

- Product Description & Typical Applications
- Physical Characteristics
- Early Fire Hazard Rating
- Thermal Conductivity
- Acoustic Performance
- Moisture Absorption

AcoustiSorb 3 is a medium/heavyweight insulation designed as an optimal product for the internal lining of air conditioning ducting. For internal lining, Tontine recommend a foil laminate facing. Other recommended uses include storage tanks, process equipment, appliance cabinets, plant rooms and acoustic baffles.

Nominal Thickness (mm) 25 to 100mm
 Dimensions:
 Rolls - 25mm only 10m x 1200mm
 Pads - 25mm-100mm 2400 x 1200/1500mm

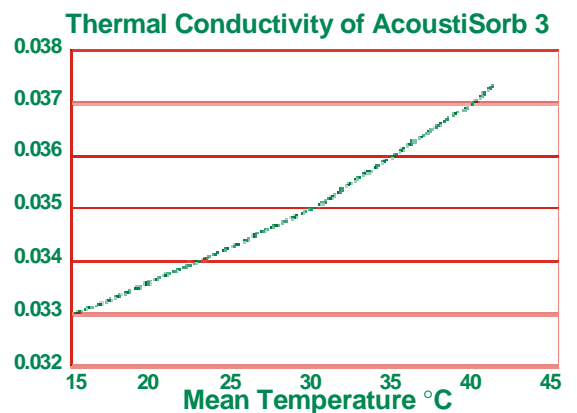
When tested in accordance with AS1530 Part 3-1999 "Early Fire Hazard Properties of Materials", Plain AcoustiSorb 3 exhibits the following characteristics:	Ignitability	Index	0
	Spread of Flame	Index	0
	Heat Evolved	Index	0
	Smoke Evolved	Index	0-3

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

The thermal conductivity of AcoustiSorb 3 at a mean* temperature of 20°C is 0.0335 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)

AcoustiSorb 3 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	0.33	0.65	0.82	0.98	0.70
Plain 50mm	0.40	0.70	0.91	0.95	0.94	0.85
Perf Foil 50mm	0.46	0.78	1.05	1.06	0.95	0.90

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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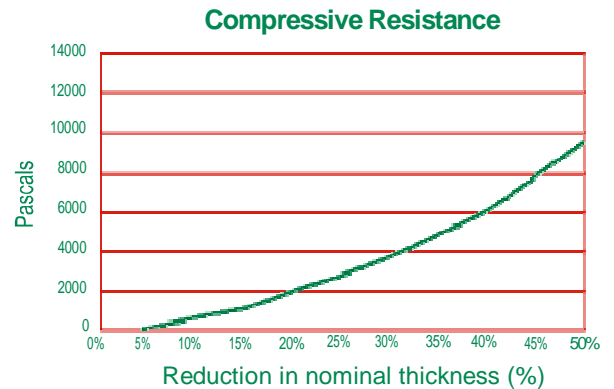
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Maximum
Service
Temperature

The maximum service temperature for AcoustiSorb 3 is 150°C. When used with facings, tolerance of the facing adhesive limits the surface temperature tolerance to 70°C.

Compressive
Strength

Even after prolonged storage under compression, AcoustiSorb 3 has excellent resilience.



Specification
Notes

State:

- Product name - Tontine AcoustiSorb 3.
- Thickness or heat loss /gain criteria.
- Type of equipment and operating temperature range.
- Whether a vapour barrier 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 3 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.



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Distribution Details

We reserve the right to update information without prior consultation.

LIGON 216 PTY LTD ABN 79 003 799 068 trading as **SOUNDBLOCK SOLUTIONS**

P. O. Box 813, Woollahra NSW 1350

Tel: 61 2 9327 7410 Fax: 61 2 9327 1077 Mobile: 0418 409 504

Website: www.soundblock.com.au Email: management@soundblock.com.au

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