



Data Sheet

Sonic-Fiber Noise Absorber

Sonic-Fiber™ Noise Absorber is a semi-flexible non-asbestos mineral wool that provides much greater sound attenuation and absorption than fiberglass bats or urethane foam (see our application note on *Sound Absorber Facts and Fiction*). Sonic-Fiber™ is naturally hydrophobic (repels water), fire resistant, does not promote mold growth, and is vermin-proof. It is available in sheets that are either un-faced or faced on one side with an encapsulant which protects the fibers and acts like a vapor barrier. Sonic-Fiber™ comes in standard size sheets of 4' x 6' with a 2" thickness, and a density of 8 lbs/cu-ft. Different thicknesses, sheet sizes and facings are available upon request. Mechanical and acoustic properties are provided below.

Standard Sheet Size
4'x6'x2" thick
8 lb/cu-ft

Typical Mechanical Properties	
Weight Density	8 lb/cu-ft
Thickness	2.000"
Adsorption ¹	<1% by volume
Combustibility ²	Non-combustible
Corrosivity ³	Non-corrosive
Thermal R-Value	8.3
Maximum Temperature ⁴	1200°F

Typical Acoustical Properties (NRC) ⁵		
Frequency (Hz)	2" thick	4" thick*
125	0.35	1.15
250	0.84	1.17
500	1.08	1.18
1000	1.04	1.03
2000	0.96	1.06
4000	0.93	1.08
NRC	1.00	1.10

*estimated

The Noise Reduction Coefficient (NRC) of a material is obtained through testing by a certified laboratory to ASTM standards. The NRC is an indication of the amount of sound energy absorbed upon striking a particular surface. An NRC of 0 indicates perfect reflection (such as a smooth concrete surface) and an NRC of 1 indicates perfect absorption. Sonic-Fiber™ is used inside rooms, enclosures and walls to significantly reduce acoustical reflections and overall sound energy, and may be used together with sound barrier materials, such as Sonic-Shield™ Noise Barrier.

For other product information, technical assistance or ordering, please call
Sonic-Shield at 888-769-0766 or on-line at www.sonic-shield.com

⁵ ASTM C 423