Mineral Fiber Insulation

Total Sound Control® Since 1977
Auralex® acoustics
www.auralex.com

Mineral Fiber Insulation offers superior acoustic performance with and NRC of 1.00 (2") and 1.05 (4"). It has a thermal performance with and R-Value of 4.20 *(per inch of thickness).*

Since **Auralex Mineral Fiber** has a nominal density of 8 pounds per cubic foot (PCF), it is preferred in use of wall, floor and ceiling construction for reducing sound transmission when compared to most standard thermal fiberglass insulation.

Mineral Fiber is most effective when used in combination with **RC-8™ Resilient Channel** and **SheetBlok™ Sound Barrier** *(wall and ceiling isolation)* or **U-Boat™ Floor Floaters** and **SheetBlok Sound Barrier** *(floor isolation).*

Technical Details:	
NRC	2" = 1.00 4" = 1.05
Qty. Per Box:	2" – 6 (48 sq. ft.) 4" – 3 (24 sq. ft.)
Flame Retardancy	Class A (ASTM E-84*)

	Performance								Norms
Thermal conductivity	Tm (°F)	100	200	300	400	500	600	700	ASTM C177
	λ (BTU.in/hr.ft².°F)	0.24	0.29	0.35	0.41	0.47	0.56	0.68	
	Tm (°C)	38	93	149	204	260	316	371	
	λ (W/mK)	0.035	0.042	0.050	0.059	0.068	0.081	0.098	
Maximum Service Temperature	Hot Surface Performance: 1200 °F- (650 °C) Non-Combustible								ASTM C411 ASTM E136 / CAN4 S114
	Linear Shrinkage: ≤ 1 % at 1200 °F- (650 °C)								ASTM C356
Reaction to fire	Surface burning characteristics Flame spread index =0 ; Smoke development index =0								ASTM E84 (UL 723) CAN/ULC S102
Density	Actual Density =5.8 lb/ft³ - (93 kg/m³) Nominal Density =8.0 lb/ft³								ASTM C303
Corrosion resistance **	Stress Corrosion Cracking Tendency of Austenitic Stainless Steel =Passed Corrosion of Steel =Passed								ASTM C692 ASTM C665
Chemical Analysis **	(Salts: Cl^- , Fl^- , Na^+, SiO_4^{4-}) Results fall within acceptability limits of ASTM C795								ASTM C795 / ASTM C871
Thermal Resistance	R-Value / inch @ 75 °F RSI value / 25.4mm @ 24 °C					4.2 hr. ft².°F/BTU 0.74 m²K/W			ASTM C518 (C177)
Water Absorption/ Vapor Sorption	<1 % Weight								ASTM C1104
Compressive strength	≥ 167psf (8kPa) @ 10% compression								ASTM C165
Compliance	Complies with Type: IVB								ASTM C612

Surface Burning Characteristics: UL Listed to Canadian standard CAN/ULC S102 ; UL Classified to UL 723

**While many Auralex products are fire retardant and/or self extinguishing to varying extents, we cannot guarantee that any product meets the specific building code regulations in your area as regulations widely vary from place to place. Check with you local fire marshal or building inspector for approval prior to purchasing or installing any of our products. Auralex will not be held liable for property damage or injuries caused by misuse of our products.*

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Real-World Acoustics®

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