

TUFCOTE® H-Series SM Acoustical Foam with Aluminized Facing



- Excellent sound absorption
- Listed UL 94 HF-1 for flame resistance
- Reflective facing withstands high temperatures, controls heat transfer
- Shiny surface lights up dark interiors
- Resistant to soil, fluids

Product Applications

Compressors

Generators

Pumps

Engine enclosures

Motor-driven equipment

E-A-R's TUFCOTE H-Series SM-faced foam is a highly effective sound-absorbing foam topped with a protective film of aluminized polyester. Listed UL 94 HF-1 for flame resistance, it is ideal for noise control applications where radiant heat, as well as soil and fluids, may degrade acoustical materials.

E-A-R applies the SM material's 1 mil polyester facing to TUFCOTE acoustical foam by a proprietary thin sheet casting process, which casts the foam to thickness in continuous sheets and chemically fuses it with various facings and backings, including pressure-sensitive adhesives. The resulting multi-layer material effectively resists the delamination common with adhesive or flame bonds, particularly at elevated temperatures.

TUFCOTE H-Series SM foam is available in rolls, sheets or as custom die-cut parts, with or without peel-and-stick adhesives, and in thicknesses ranging from 1/2-inch to 2 inches.

Typical Properties	
Property	H-100SM
Description	
Top Surface	1 mil Alum. Polyester
Thickness cm (in)	2.54 (1.0)
Flammability	Foam and Facing Composite
UL 94	Listed HF-1
MVSS-302	Meets
Thermal Conductivity—K Value	
ASTM C177 W/m•K (BTU in/hr ft ² F)	.038 (0.26)
Tensile Strength kPa (psi)	
Foam, ASTM D3574	
at 23C (73F), ambient humidity	88 (13)
at 70C (158F), 100% humidity x 2 wk	98 (14)
Facing, ASTM D882	4,134 (28,500)
Tear Strength kN/m (lbf/in)	
Foam, ASTM D3574	.55 (3.1)
Elongation (%)	
Foam, ASTM D3574	
at room temp., ambient humidity	113
at 70C (158F), 100% humidity x 2 wk	136