

TechLite® Insulation Specification

TechLite is a low density, high temperature foam insulation which was developed as an alternative to conventional insulation to minimize the problems of toxicity, carcinogens, and airborne fibers. It is light grey, low density and has a service temperature range of -40°F to + 350°F per ASTM C-1410 (- 150°F to + 400°F consult factory) The polymeric foam contains no toxic or carcinogenic materials, is highly fire resistant, has low smoke, produces low out gassing and has outstanding thermal and acoustical properties.

Insulation Material (ASTM-C-1410).....	Flexible Open-Cell Melamine
Service Temperature (ASTM C-1410).....	-40°F to + 350°F (-150°F to + 400°F consult factory)
Density (ASTM-D-3574).....	0.6 to 0.7 pcf
Thermal Conductivity (ASTM-C-177).....	K factor @75° F..... 0.26 BTU/hr/sq/ft/ °F/in
Compression & Deflection (ASTM-D-3574).....	@25% - 86 lbs.....@ 65% - 170 lbs.
Tensile Strength (ASTM-D-3574).....	16 psi
Elongation (ASTM-D-3574).....	33%
Flammability (ASTM-E-84).....	Flame Spread 10.....Smoke Density 50
UL 94 V-0, HF-1.....	Passes
Oxygen Index (ASTM-D-2863).....	33%
National Fire Protection Association NFPA No. 101 "Life Safety Code".....	Class A
Uniform Building Code, 1988 Edition, Part VII..	
"Fire Resistive Standard for Fire Protection," Sections 4201-4203.....	Class 1
Federal Motor Vehicle Safety Standard (FMVSS) No. 302	
"Flammability of Interior Materials".....	Rate of burning=0"/Min..... Rated Self-Extinguishing
"Chemical Analysis of Thermal Insulation Materials for Leach able Chloride.	
Fluoride, Silicate and Sodium Ions" (ASTM-C-871):	Max. Allowed
Chloride (Cl).....	95 ppm..... 350 ppm
Fluoride (F).....	2 ppm
Silicates (SiO3).....	140 ppm
Sodium (Na).....	3887 ppm
PH.....	9
"Wicking-Type Thermal Insulation for Use Over Austenitic	
Stainless Steel" (ASTM-C-795).....	95ppm Cl--Pass
NRC Guide 1.36, Section C, Para 2 (b).....	Pass
Toxic Gas Generation & Analysis (ASTM-E-800 & ASTM-E-662)	Airbus ATS Allowable
Carbon Monoxide (CO).....	27 ppm..... 3500 ppm
Hydrogen Fluoride (HF).....	≤1 ppm..... 50 ppm
Hydrogen Chloride (HCL).....	≤1 ppm..... 500 ppm
Sulfur Dioxide (SO2).....	≤1 ppm..... 100 ppm
Nitrous Gases (NO+NO2).....	5 ppm..... 100 ppm
Hydrogen Cyanide (HCN).....	7 ppm..... 150 ppm
Boeing Specification, BSS 7239, "Test Method for Toxic Gas Generation	
by Materials on Combustion".....	Meets and Exceeds
Airbus Industries Technical Specification, ATS-1000.001,	
"Fire-Smoke-Toxicity (FST) Test Specification.....	Meets and Exceeds

Specifications subject to change without notice. All statements and technical information contained herein are based on tests we believe to be reliable, but the accuracy or completeness is not guaranteed under all circumstances. All flammability ratings and specifications are based on laboratory tests and do not describe the performance of these materials in an actual fire situation. Before using Accessible Products Company products, the user shall determine suitability for the intended use, and user assumes all responsibility for improper selection.



I n s u l a t i o n

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