

# Spaceloft® A2

## HIGH PERFORMANCE INSULATION FOR BUILDING ENVELOPES

Spaceloft A2 is a flexible, nanoporous aerogel blanket insulation designed to meet the demanding energy conservation requirements of residential and commercial building applications.

Spaceloft's unique properties – extremely low thermal conductivity, superior flexibility, compression resistance, hydrophobicity, and ease of use – make it essential for those seeking the ultimate in thermal protection.

Using patented technology, Spaceloft A2 insulation combines a silica aerogel with reinforcing fibers to deliver industry-leading thermal performance in an easy-to-handle and environmentally friendly product. Spaceloft products are a proven, effective insulator in building applications, providing maximum energy efficiency in walls, floors, roofs, and framing.

Fire Performance — Spaceloft has received an A2 rating in the Euroclass fire test and a Class A rating in the ASTM E 84 fire test.

### Advantages

#### Superior Thermal Performance

Up to five times better thermal performance than competing insulation products

#### Reduced Thickness and Profile

Equal thermal resistance at a fraction of the thickness

#### Less Time and Labor to Install

Easily cut and conformed to complex shapes, tight curvatures, and spaces with restricted access

#### Physically Robust

Soft and flexible but with excellent resilience, Spaceloft® recovers its thermal performance even after compression events as high as 50 psi

#### Shipping and Warehousing Savings

Reduced material volume, high packing density, and low scrap rates can reduce logistics costs by a factor of five or more compared to rigid, preformed insulations

#### Hydrophobic Yet Breathable

Spaceloft® repels liquid water but allows vapor to pass through

#### Environmentally Friendly

Landfill disposable with no respirable fiber content

### Characteristics

Spaceloft® can be cut using conventional textile cutting tools including scissors, electric scissors, and razor knives. The material can be dusty, and it is recommended gloves, safety glasses, and dust mask be worn when handling material.

See MSDS for complete health and safety information.

### Other Available Materials

Aspen Aerogels® produces several series of flexible aerogel blanket materials for thermal insulation, energy absorption, and fire protection. Please contact Aspen Aerogels® for additional information on these products.



### Product Properties and Sustainability

Thicknesses*	5 mm, 10 mm
Width*	1,450 mm
Thermal Conductivity, EN 12667 <sup>§</sup>	18 mW/m-K @ mean temp. of 10°C
Color	Light Gray
Compressive Strength, ASTM C 165	55 kPa Stress at 10% compression
Fire Performance, BS EN 13501-1: 2007	A2-s1, do
Fire Performance, ASTM E 84	Class A
Hydrophobic	Yes
Embodied Energy (MJ/kg)	53
Embodied CO <sub>2</sub> (kg of CO <sub>2</sub> / kg)	4.2

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