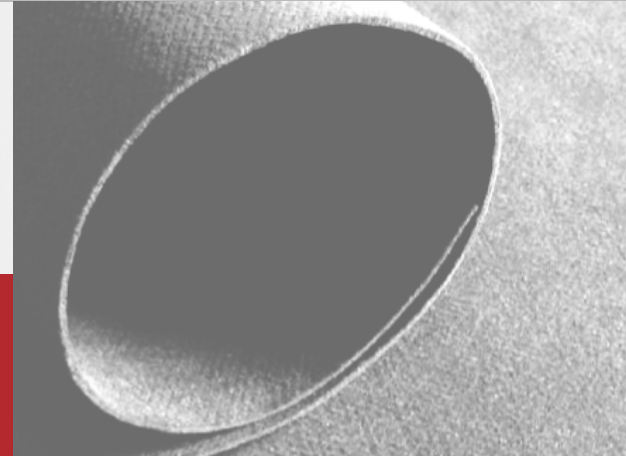


# Pyrogel<sup>®</sup> 2250E



## FLEXIBLE INSULATION FOR MID-TEMPERATURE APPLICATIONS

Pyrogel<sup>®</sup> 2250E is a flexible aerogel insulation blanket designed for mid-temperature applications including transportation, power generation, thermal protection, tube bundles and small diameter tubing.

Using patented technology, Pyrogel<sup>®</sup> 2250E combines a silica aerogel with reinforcing fibers to deliver low thermal conductivity, mid-temperature resistance, and good flexibility in an environmentally safe product.

Pyrogel<sup>®</sup> 2250E provides excellent thermal performance up to 200°C (390°F), while offering advantages including high tensile strength, high compressive strength, and hydrophobicity.

### PHYSICAL PROPERTIES

THICKNESS <sub>1</sub>	0.10 in (2.5 mm)
MAXIMUM USE TEMPERATURE	390°F (200°C)
COLOR	Grey
DENSITY <sub>1</sub>	10.7 lb/ft <sup>3</sup> (0.17 g/cc)
HYDROPHOBIC	Yes
MATERIAL FORM <sub>1</sub>	57 in x 450 ft or 650 ft long rolls
CHLORIDE CONTENT	Less than 35 ppm when tested using ASTM C871
TENSILE STRENGTH (stress at maximum load, typical value)	317 psi per modified ASTM D5034, single layer specimen at 1 in width

### THERMAL CONDUCTIVITY<sub>2</sub> PER ASTM C177

Mean Temperature	°C	50	100	150	200
	°F	122	212	302	392
Thermal Conductivity	mW/m K	18.5	19.5	20.7	22.4
	BTU in/hr ft <sup>2</sup> °F	.13	.14	.14	.16

<sup>1</sup> Nominal value  
<sup>2</sup> Thermal conductivity measurements taken at a competitive load of 2 psi

Characteristics: Pyrogel<sup>®</sup> 2250E 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 SDS for complete health and safety information.

### ADVANTAGES

#### SUPERIOR THERMAL PERFORMANCE

Up to five times better thermal performance than traditional insulation products.

#### MINIMUM WEIGHT AND THICKNESS

Low thermal conductivity at a fraction of the thickness.

#### EASY TO APPLY AND HANDLE

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

#### PHYSICALLY ROBUST

Soft and flexible but with excellent spring-back.

#### SHIPPING AND WAREHOUSING SAVINGS

Reduced material volume, high packing density, and low scrap rates reduce logistical issues and minimize overall logistic costs.

#### SIMPLIFIED INVENTORY

Unlike rigid pre-forms such as pipe cover or board, Pyrogel<sup>®</sup> 2250E blanket can be kitted to fit any shape or design.

#### ENVIRONMENTALLY SAFE

Landfill disposable, shot-free, no respirable fiber.

This product, produced by Aspen Aerogels, Inc. ("ASPEN") is covered by a series of domestic and international patents and licenses. See [www.aerogel.com/pat](http://www.aerogel.com/pat) for further details. The information in this data sheet is provided as a convenience and for informational purposes only and obtained from initial type testing by the manufacturer. Product properties are subject to manufacturing variations. This information may contain inaccuracies, errors or omissions. All the products supplied, including all recommendations or suggestions must be evaluated by the user to determine applicability and suitability for any particular use. No guarantee or warranty as to this information, or any product to which it relates, is given or implied here. ASPEN DISCLAIMS ALL WARRANTIES EXPRESSED OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AS TO (i) SUCH INFORMATION, (ii) ANY PRODUCT. In no event is ASPEN responsible for, and ASPEN does not accept and hereby disclaims liability for, any damages whatsoever in connection with the use of or reliance on this information or any product to which it relates.