

BRONX Oryza-SIL-650 Aerogel Insulation Blanket

Excellent Low Dust Solution for Industrial and Commercial Thermal Insulation



Brief Product Description

Oryza-SIL-650 is a highly porous, flexible, lightweight fibre reinforced aerogel thermal insulation product that is manufactured through a special process. It has excellent properties that allow it to be used in a wide range of applications from pipeline and petroleum/petrochemical industry insulation to aerospace, marine, land transportation and home appliances.

Oryza-SIL-650 is engineered to provide superior thermal insulation for applications up to 650°C, and a **low dust** handling experience – reducing need to seal off work area.

Features

- Low dust
- Excellent thermal insulation performance
- Hydrophobic – able to repel water
- Low density – easy to handle and install
- Fire Performance, Grade A1
- **Non-combustible** classification under BS 476 Part 4
- Durable and longevity
- No crystalline silica content in residual dust - safe for workers upon contact

Product Dimensions

Thickness	3mm	5mm	10mm	20mm
Dimensions W x L (m)	1.5 x 50	1.5 x 40	1.5 x 20	1.5 x 10
Sqm/roll	75	60	30	15

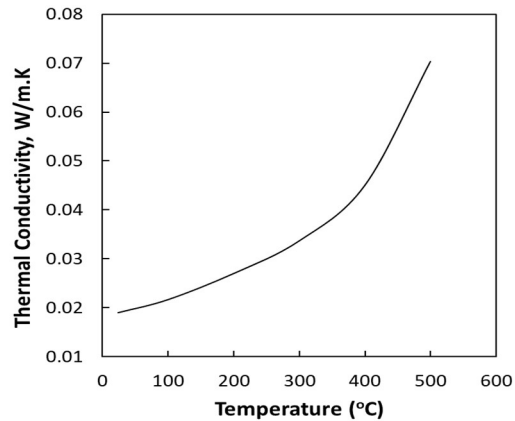
BRONX Oryza-SIL-650 Aerogel Insulation Blanket

Technical Specification

THERMAL CONDUCTIVITY

Tested with ASTM C177 Results

Mean Temp °C	W/m-K
24 °C	0.020
149 °C	0.022
204 °C	0.026
260 °C	0.030
316 °C	0.034
371 °C	0.041



Property	Test Standard	Value
Thickness (mm)	-	3, 5, 10, 20
Colour	-	White
Product Form	-	Blanket
Bulk Density* (kg/m ³)	ASTM C303	180
Estimated Max Use Temperature (°C)	ASTM C447/C411	650
Water Absorption by Immersion	ASTM 1763	Pass
Water Vapour Sorption	ASTM C1104	< 5% by weight
Compressive Strength @ 10% (kPa)	ASTM C165	≥ 20.3
Surface Burning Characteristics#	ASTM E84	FSI = 0 SDI = 0
Linear Shrinkage (after 650°C heat for 24h)	ASTM C356	<5%
Flexibility of Blanket Insulation	ASTM 1101/ ASTM 1101M	Pass
Corrossiveness to Steel	ASTM C1617	Pass

* Nominal value

FSI: Flame Spread Index

SDI: Smoke Developed Index

Disclaimer of Liability

This information is provided as a convenience and for informational purposes only. No guarantee or warranty as to this information, or any product to which it relates, is given or implied. Bronx disclaims all warranties expressed or implied, including merchantability or fitness for a particular purpose as to (i) such information (ii) any product or (iii) intellectual property infringement. In no event is Bronx responsible for, and Bronx 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

Bronx Holdings Pte Ltd

17 Jalan Mesin #03-01 Kimann@17

Singapore 368816

<http://www.bronxmrc.com>

T: 6243 3132 F: 6243 6658

E: contact@bronxmrc.com