



KROSSLINKER Cryar[®]

SUPER-INSULATING AEROGEL COMPOSITE BOARD

| TECHNOLOGY OVERVIEW

KrossLinker's Cryar integrates the world's most insulating material, Silica Aerogel, into a versatile rigid board form through KrossLinker's patented ASPIRE™ platform technology. A first of its kind Si-aerogel composite board made with a water-based, eco-friendly formulation and an energy efficient process.

The nano-porous structure of silica aerogels impart Cryar with the best-in-class thermal insulation performance that is fully retained long-term. Made to be hydrophobic and fire-retardant, Cryar™ offers multiple levels of protection for a diverse set of applications.

| APPLICATIONS



Cold-Chain Packaging

High performance, reusable insulation, for the safe & effective transport of drugs & vaccines



Building Insulation

Safe, sustainable and energy efficient buildings with thin, high-performance, fire-retardant insulation



EV & Battery Protection

Effective barrier for thermal runaway and environmental protection, maximizing safety, lifespan & performance



Industrial Insulation

Reliable, anti-corrosion protection and insulation for both Pyro and Cryo applications

| UNIQUE FEATURES OF CRYAR[®]



Best-in-class insulation performance



Thin & Lightweight



Reliable, long-term stability of properties



Durable & Reusable



Non-toxic, water-based formulation



Recyclable

MATERIAL PROPERTIES

Thermal Conductivity ^[1]
17 to 19 mW / m.K

Nominal R Value (1 inch)
7.5 to 8.5

Density
100 to 120 kg / m³

Operating temp range
-196 to 200 °C

Compressive strength ^[2]
100 to 180 kPa

Product Form Factor
Rigid Board

*Sheet size: **390 x 390 mm**
Thickness: **10, 20, 25 mm**



[1] Test conducted in accordance with ASTM C518 / C177
[2] Test conducted in accordance with ASTM C165
* Sheet sizes of 600 x 600 mm and larger will be available 2023 onward. 390 x 390 mm sheets currently available for sampling