

## Insulation Products

Product	Nominal Thickness*		Thermal Conductivity†		Density*		Max Use Temperature		Typical Applications
	mm	in	mW/ m-K	Btu-in/ hr-ft <sup>2</sup> -°F	g/cc	lb/ft <sup>3</sup>	C	F	
<b>Pyrogel® XT-E</b>	5.0 10.0	0.20 0.40	21.0	0.146	0.20	12.5	650°	1200°	Medium-to-high pressure steam pipes, vessels and equipment; aerospace & defense applications; fire barriers; welding blankets
<b>Pyrogel® XTF</b> (Fire Protection)	10.0	0.40	21.0	0.146	0.18	11.0	650°	1200°	Medium-to-high pressure steam pipes, vessels and equipment; aerospace & defense applications; fire barriers; welding blankets
<b>Cryogel® Z</b>	5.0 10.0	0.20 0.40	15.0	0.104	0.13	8.0	125°	257°	Sub-ambient and cryogenic pipelines, vessels, and equipment
<b>Cryogel® x201</b>	5.0 10.0	0.20 0.40	15.0	0.104	0.13	8.0	200°	390°	Original equipment manufacturer (OEM) and fabricator applications

\* Nominal Values

† Thermal conductivity values taken at 100°F (37.5°C) at a compressive load of 2 psi

Information presented herein is typical and representative of material performance. Any and all warranties, either expressed or implied, are disclaimed. All products or materials supplied, including any recommendations or suggestions must be evaluated by the user to determine applicability and suitability for a particular use. Values should not be used directly for specification purposes. Aspen Aerogels, Inc. does not assume any liability for use or misuse of any products produced or supplied.