



SUPERHOT® XPS

Low Inner Stress "SUPERHOT"® Extruded Polystyrene (XPS) Insulation Board is a rigid and relatively high density extruded polystyrene foam board. It has a 100% closed cell structure and is produced by fully automatic production lines which were imported from KraussMaffei Berstorff of Germany. With advanced repeated foaming process, SUPERHOT® XPS has extremely excellent dimensional stability property and thermal insulation property.

Thanks to a revolutionary new manufacturing process, SUPERHOT® XPS is also environmentally friendly. Produced with no refrigerants and HCFC free, SUPERHOT® XPS is truly a green building material.

Features & Benefits

- High resistance to heat flow, i.e. low thermal conductivity
- Relatively high compressive strength, up to 900kPa
- Excellent dimensional stability
- Uniform density & compressive strength distribution
- Long term retained R-value
- Resistance to water vapour diffusion and water absorption
- Durable and sturdy for long lasting applications
- Lightweight & easy to handle
- Environmentally friendly-HCFC free
- More flame retarded



Applications

★ Thermal Insulation of Buildings

- Floor insulation
- Perimeter insulation
- Roofs – Inverted and pitched
- Roofs - Flat
- Insulation of thermal bridges for exterior walls,
- Insulation of cavity walls
- Prefabricated elements

★ Cold Storage

- External walls, roofs, floors
- Refrigerated truck bodies

★ Airport

- Airport runway

★ Railway

- Parking platform

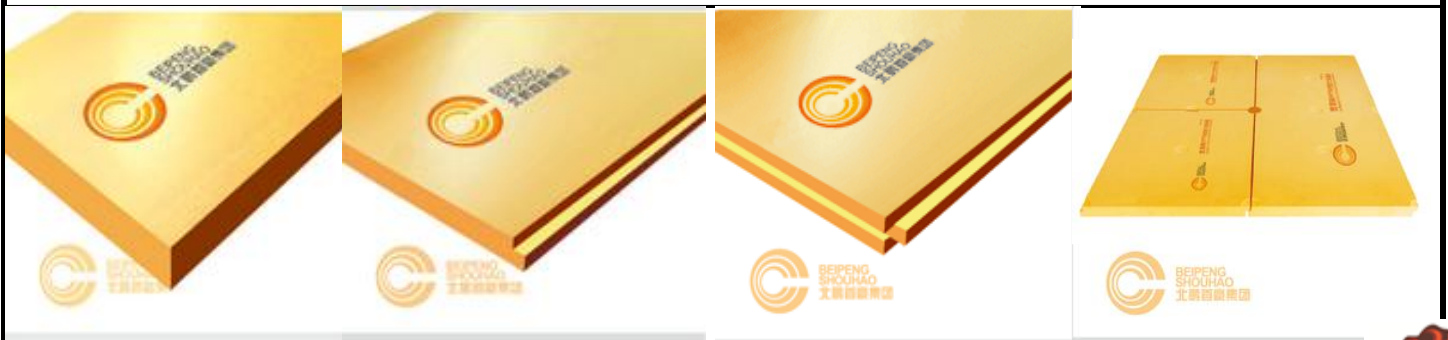
★ Deep Processing



Table of Physical Properties

Properties	Unit	Test Standards	SUPERHOT® XPS						
			X200	X250	X300	X350	X400	X450	
Compressive Strength	kpa	GB/T 8813	≥200	≥250	≥300	≥350	≥400	≥450	
Norminal Density	kg/m³	GB/T 6364	28-31	31-35	34-40	36-42	38-44	40-45	
Thermal Conductivity	W/(m.k)	GB/T 10294	avg. 10°C	0.026	0.026	0.026	0.026	0.026	0.026
			avg. 25°C	0.028	0.028	0.028	0.028	0.028	0.028
Water Absorption	%(v/v)	GB/T 8810	≤1.0						
Vapor Permeability Coefficient	ng/(m. s. Pa)	GB/T 2411	≤3.0			≤2.0			
Dimentional Stability	%	GB/T 8811	≤2.0		≤1.5			≤1.0	
Reaction to Fire		GB 8624	B1, B2						
Temperature Limits	°C		-50/+75						
Dimentions	Thickness	mm	GB/T 10801.1	20-120					
	Width	mm	GB/T 10801.1	600/1200					
	Length	mm	GB/T 10801.1	1200/2200/2400/3000					
Tolerances	Thickness	mm	GB/T 10801.1	-0/+1					
	Width	mm	GB/T 10801.1	-0/+3					
	Length	mm	GB/T 10801.1	-0/+10					
Surface Finish			Skin-On/Off, Grooved						
Edge Profile			SS SL RC TG						

* XPS foam with other specifications can be produced according to client's requirements, compressive strength 150kPa-900kPa, thickness 10-120mm



SUPERHOT® XPS Board

SUPERHOT® XPS Board-1200mm wide						
Thickness	Thermal Conductivity	R-Value	Width	Length	Edge	Compressive Strength
mm	(W/(m.k))	(m ² K/W)	mm	mm		kPa
30	0.028	1.07	1200	2400	SS/SL/TG	300
40	0.028	1.43	1200	2400	SS/SL/TG	300
50	0.028	1.78	1200	2400	SS/SL/TG	300
60	0.028	2.14	1200	2400	SS/SL/TG	300
70	0.028	2.50	1200	2400	SS/SL/TG	300
80	0.028	2.85	1200	2400	SS/SL/TG	300
90	0.028	3.21	1200	2400	SS/SL/TG	300
100	0.028	3.57	1200	2400	SS/SL/TG	300
110	0.028	3.92	1200	2400	SS/SL/TG	300
120	0.028	4.28	1200	2400	SS/SL/TG	300

SUPERHOT® XPS Board-600mm wide						
Thickness	Thermal Conductivity	R-Value	Width	Length	Edge	Compressive Strength
mm	(W/(m.k))	(m ² K/W)	mm	mm		kPa
20	0.028	0.71	600	1200	SS/SL/TG	200
30	0.028	1.07	600	1200	SS/SL/TG	200
40	0.028	1.43	600	1200	SS/SL/TG	200
50	0.028	1.78	600	1200	SS/SL/TG	200
60	0.028	2.14	600	1200	SS/SL/TG	200
70	0.028	2.50	600	1200	SS/SL/TG	200
80	0.028	2.85	600	1200	SS/SL/TG	200
90	0.028	3.21	600	1200	SS/SL/TG	200
100	0.028	3.57	600	1200	SS/SL/TG	200
110	0.028	3.92	600	1200	SS/SL/TG	200
120	0.028	4.28	600	1200	SS/SL/TG	200

For more information please call us 400-869-6922 or visit us at pekingsoho.com or beipengshouhao.com

Note: The data, information and suggestions covered in this data sheet, tested in our laboratory, are for reference purposes only. The potential user must perform pertinent tests to determine the product's performance and suitability in the intended application.

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