

Product

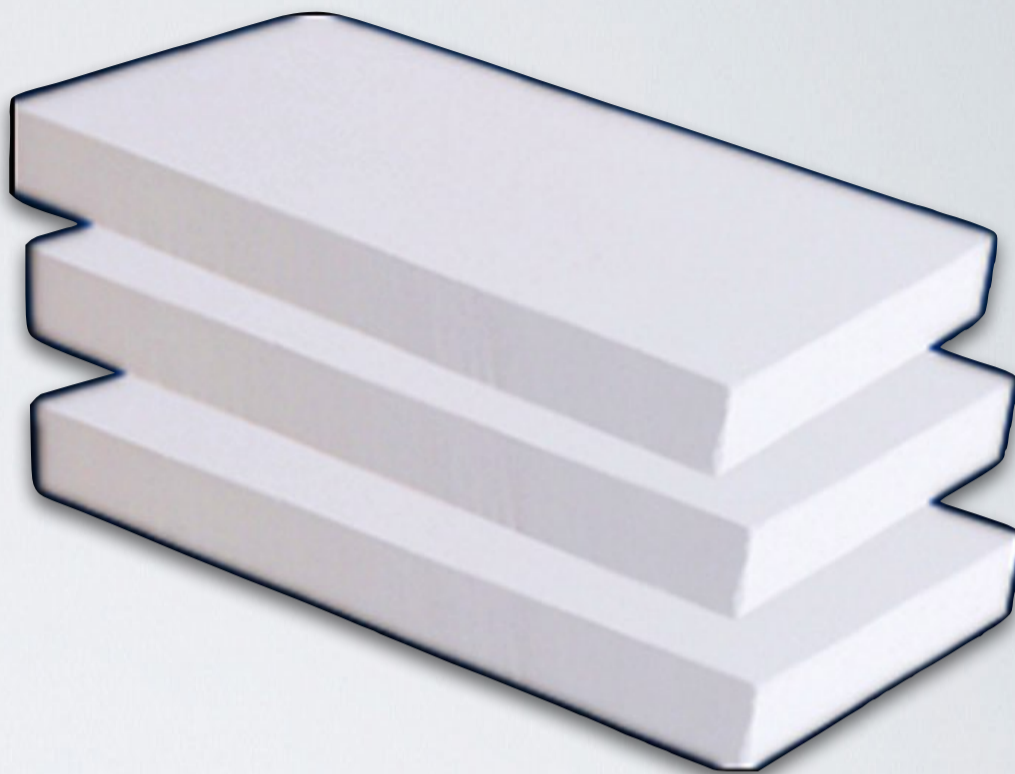
- TPS-XTREME™ 550 is a high-temperature calcium silicate insulation board manufactured by Yantai Fanghua Insulation Engineering Co., LTD, imported exclusively by Thermal Pipe Shields and sold through a nationwide network of distribution and fabrication partners.
- Engineered to protect industrial and refractory equipment operating continuously at temperatures up to 1922°F (1050°C) and a maximum temperature of 2012°F (1100°C).
- Xonotlite molecular structure provides much higher temperature and compressive resistance compared to other calcium silicate insulations.

Features

- TPS-XTREME 550 is hydraulically pressed to a bulk dry density of 34 PCF (550 Kg/m³)
- Pressing process provides a uniform and robust material matrix providing greater than 870 psi (6.0 MPa) of compressive strength.
- Produced in board sizes ≈ 4' x 4' (1200 mm x 1200 mm) and shipped on wooden pallets.
- Offered in various board thicknesses ranging from 1/2" to 2" (13 to 51 mm).
- Easily fabricated with a CNC equipment into OEM component parts for various industries.
- Available with sanded surface one or both sides
- TPS-XTREME is non-toxic and contains ZERO asbestos, mercury, sulphur, chlorine or lead.

Benefits

- Provides uniform load bearing capacity throughout entire service temperature range.
- Excellent thermal resistance withstanding continuous exposure up to 1050°C (1922°F)
- Low thermal conductivity at all temperatures
- Lightweight and easily fabricated
- Long-term durability with virtually no dust produced after exposure to high temperatures
- Standard product is water absorbent, but will fully dry out and retain all of its thermal and strength characteristics.
- Optional water resistant treatment available upon request.



Physical Properties

ASTM C302/C303 Dry Density	34 lbs. per cu. ft. (550 kg/m ³)
ASTM C165 Compressive Strength	>870 psi @ 5% strain (>6,000 kPa)
ASTM C203 Flexural Strength	>478 psi (>3,300 kPa)
ASTM C356 Linear Shrinkage	<1.0% after soaking heat @ 1832°F (1000°C)
ASTM C447 Max Service Temp	2012°F (1100°C)
ASTM E136 Non-Combustible	Passes
ASTM E84 Surface Burning Properties	Flame Spread - 0 Smoke Developed - 0
Thermal Conductivity @ 68°F (20°C) Mean	≤0.472 BTU·in/h·ft ² ·°F (≤0.068 W/m·K)
Thermal Conductivity @ 392°F (200°C) Mean	≤0.548 BTU·in/h·ft ² ·°F (≤0.079 W/m·K)
Thermal Conductivity @ 752°F (400°C) Mean	≤0.638 BTU·in/h·ft ² ·°F (≤0.092 W/m·K)