

Product

- TPS Phenolic Foam is a closed cell, moisture resistant rigid thermal pipe insulation.
- Produced in large block form, then fabricated into pipe sections by Fujian Tenlead Advanced Material Co., LTD and imported exclusively by Thermal Pipe Shields, Inc.
- Available in 36" long sections in both iron pipe and copper tubing sizes with or without factory laminated vapor retarders.
- Low thermal conductivity provides superior insulating performance for mechanical piping systems operating between 0°F and 210°F.



Features

- TPS Phenolic Foam is a cost-effective choice compared to other foam plastic insulations such as XPS or PIR.
- Low density with high compressive strength to support the weight of the pipe at the hangers.
- Closed cell foam insulation with factory applied vapor retarder provides excellent moisture resistance in below ambient systems such as chilled water lines in climates with high seasonal vapor drive.

Applications

- TPS Phenolic Foam insulation is commonly used on domestic hot and cold water, low temperature steam and chilled water piping systems in commercial and industrial facilities.
- High compressive strength, thermoset phenolic foam is often installed as an insert in mechanical piping systems at the structural pipe hanger.
- This high strength insert is used alone or in combination with a curved metal shield on the lower hemisphere of the insert to further distribute the dead/live loads of the pipe.
- Phenolic foam inserts allow for more predictable continuity of the exterior vapor retarder through the pipe hanger.
- This is a more labor friendly alternative to the traditional method of field cutting the fiberglass pipe insulation and then installing a wood block or high density fiberglass block at the pipe hanger.

Benefits

- High compressive strength thermoset phenolic foam does not crush easily compared to low compressive strength products such as mineral fiber pipe insulations.
- Phenolic foam is less dusty, light weight and fabricates easily on the jobsite.
- Factory applied All Service Jacket (ASJ) includes a self sealing lap (SSL) for easy closure of the longitudinal joints.
- When properly designed based on project conditions and installed with adequate thickness, phenolic foam insulation can prevent exterior vapor flow and the resultant moisture condensation on cold service piping.

Safety

- TPS Phenolic Foam does not contain asbestos
- CFC/HCFC free with zero ozone depletion potential (ODP)
- Thermoset plastic resistant to many common chemicals
- Non-fibrous or itchy, odorless and low dust
- Insulating hot piping will prevent personnel burn injuries in buildings and industrial plants.
- Maintains installed thickness without crushing to provide long term insulating performance
- Supports the secondary vapor retarder and metal cladding to provide continuous protection against moisture infiltration, loss of insulation performance and the resultant potential for corrosion under insulation (CUI).