

High Temperature Thermal Insulation



Into a constantly challenging world, where we are seeking more efficient thermal insulation, comes a new wonder product . Pyrogel is a high-temperature insulation blanket formed from silica aerogel and reinforced with a non-woven, glass-fibre batting. Silica aerogels possess the lowest thermal conductivity of any known solid. Pyrogel achieves this industry-leading thermal performance in a flexible, environmentally safe, and easy-to-use product.



Key Points-

- Superior Thermal Performance** - 2 times better than Cellular Foamglas and Ceramic Fibre: 5 time better than Mineral Wool , Fibre Glass & Rock Wool
- Reduced Thickness and Profile** - Equal thermal resistance at a fraction of the thickness (secondary cost reduction in the reduced metal protection required)
- Less Time and Labour to Install** - Easily cut and conformed to complex shapes, tight curvatures, and spaces with restricted access – excellent re-lag following asbestos removal, where clearance between pipes is limited
- Physically Robust** - Soft and flexible but with excellent spring-back, Pyrogel recovers its thermal performance even after compression events as high as 100 psi
- Storage Savings** - Reduced material volume, high packing density, and low scrap rates can reduce logistics costs by a factor of five or more compared to rigid, pre-formed insulations
- Simplified Inventory** - Unlike rigid pre-forms such as pipe cover or board, the same Pyrogel blanket can be used to fit any shape or design – less waste
- Hydrophobic Yet Breathable** - Pyrogel repels liquid water but allows vapour to pass through, helping to prevent corrosion under insulation
- Environmentally Safe** - Landfill disposable, shot-free, with no respirable fibre content

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