

**High-Temperature Insulation**

Process Temperature Range  
Ambient - 1200°F (650°C)



Thermo-1200® Calcium Silicate



Sproule WR-1200® Perlite



MinWool-1200® Water-Repellent Mineral Wool Pipe



MinWool-1200® Water-Repellent Mineral Wool V-Groove Pipe/Industrial Board

<b>Thermal Conductivity (&lt; 600°F)</b>		★★★★	★★	★★★★★	★★★★★
<b>Thermal Conductivity (&gt; 600°F)</b>		★★★★★	★★	★★★	★★★
<b>CUI</b>	<b>XOX Corrosion Inhibitor®</b>	★★★★★ <sup>4</sup>	★★★★★	—	—
<b>Defense</b>	<b>Water Resistance<sup>2</sup></b>	★★★	★★★★★	★★★	★★★
<b>Vibration Resistance</b>		★★★★★	★	★★★★ <sup>1</sup>	★★★★ <sup>1</sup>
<b>Compressive Strength</b>		★★★★★	★★★★★	★	★
<b>Space Constraints</b>		★★★	★★	★★★★ <sup>1</sup>	★★★★ <sup>1</sup>
<b>Transportation/Storage Cost</b>		★★	★★	★★	★★★★★
<b>Ease of Installation</b>		★★★	★★	★★★★★	★★★★★
<b>Insulation System Longevity<sup>4</sup></b>		★★★★★	★★★★★	★	★
<b>Material Cost</b>		★★★	★★★	★★★★★	★★★★★
<b>Acoustical Performance</b>		★	★	★★★★★	★★★★★

Performance Ranking System: ★ - Baseline, ★★★ - Better, ★★★★★ - Best

<sup>1</sup> Materials that have an organic binder will begin to see some binder oxidation greater than 450°F and in some applications could experience loss of thickness. Vibration can accelerate the loss of loft structure and thickness. Product may need additional thickness to accommodate for binder burnout.

<sup>2</sup> Water-resistance and hydrophobic components of insulation materials are organic and will generally begin to oxidize at temperatures between 400-500°F.

<sup>3</sup> Insulation system longevity ranked based on CUI protection, compressive strength, and vibration resistance. If other factors need to be considered, reevaluate on a case-by-case basis.

<sup>4</sup> Although the Thermo-1200 and XOX Corrosion Inhibitor are part of the system; because it is not directly against the pipe surface, we cannot expect the same level of corrosion inhibiting performance without knowing the potential exposure any water ingress had with the corrosion inhibitor itself.

\* If you are interested in how alternative insulation products or technologies compare to the JM high-temperature insulation portfolio, please contact our technical support team. This model is for information only. Check the engineering specification for your application. The final material selection is determined by the owner.