

The Evolution of Thermo-1200® Calcium Silicate: TOUGHNESS REDEFINED

Thermo-1200® is a water-resistant, Type I calcium silicate pipe and block insulation, with the XOX Corrosion Inhibitor®, designed for applications that operate at temperatures up to 1200°F (650°C). When properly installed and maintained, its superior physical strength and inorganic binders can provide an insulation lifespan of up to 25 years or more.



PROPERTIES OF THERMO-1200 CALCIUM SILICATE



Water-resistant: Thermo-1200 is the only calcium silicate manufactured in North America that is water-resistant, capable of withstanding short periods of rainfall without absorbing water in excess.



Durable: Thermo-1200 has exceptional compressive strength (>100 psi/ 690kPa), making it ideal for applications where mechanical abuse is likely. When properly installed and maintained, Thermo-1200 can provide a lifespan of 25 years or more.



Inhibits Corrosion: The XOX Corrosion Inhibitor® is integral to the chemical makeup of Thermo-1200, helping to protect against corrosion under insulation (CUI) and making Thermo-1200 one of the best insulations for mitigating CUI.



Passive Fire Protection: Meets UL-1709 Requirements, "Rapid Rise Fire Tests of Protection Materials for Structural Steel."

Let's Explore How Thermo-1200 Calcium Silicate Has Evolved Over the Years

1997

ISO 9001 Quality Management Certification
The plant in Ruston, LA received ISO 9001 quality management certification.

1999

ISO 9001 Quality Management Certification
Two years later, the plant in Fruita, CO, also received ISO 9001 quality management certification.



2002

XOX CORROSION INHIBITOR was first introduced
A proprietary corrosion inhibiting formula that helps inhibit CUI. It has been shown to decrease corrosion on metal surfaces by depositing a protective layer of leachable silicates and ions onto the metal surface.

2012

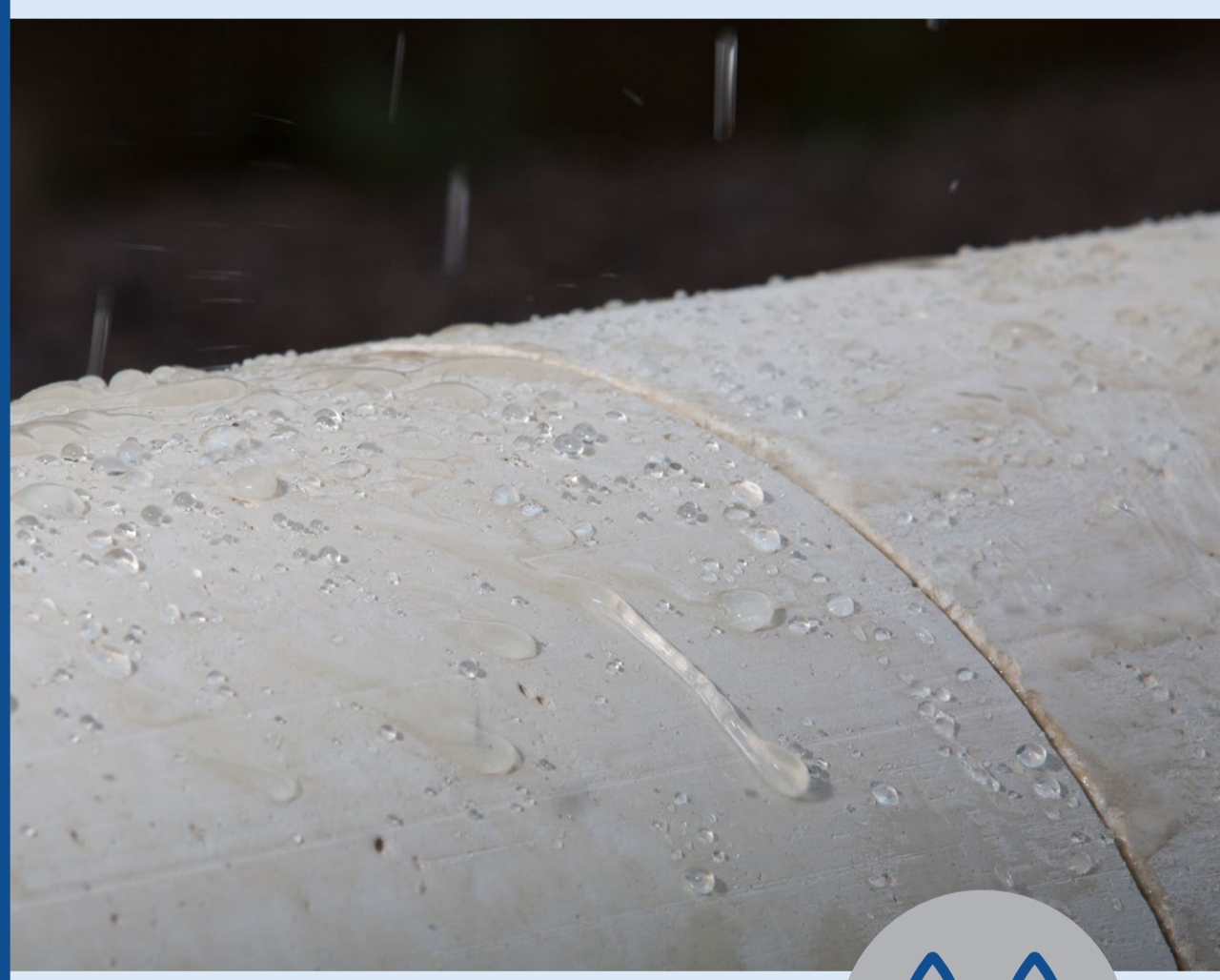
Johns Manville (JM) acquired Industrial Insulation Group (IIG), manufacturer of Thermo-12® Gold Calcium Silicate
JM provided more R&D capabilities, improved processes, and implemented more rigorous testing procedures for the calcium silicate product line.

2017

Exceptional performance in long-term accelerated corrosion testing in "real-world" conditions
Long-term in-situ corrosion testing: A 6-month system exposure test of continuous wet/dry and low/high-temperature cycling with both tap water and a 1500 PPM chloride solution.

Water-resistance feature added to Thermo-12 Gold
Engineered to withstand a heavy rainfall (1 ¼" of rain/ hour) for up to 20 minutes without absorbing more than 15% of its weight in water.

Name changed from Thermo-12 Gold to Thermo-1200
The name change coincided with the upgrade to water-resistance and updated packaging. "1200" refers to the temperature rating of 1200°F and added consistency to the portfolio of high-temperature insulation materials manufactured by JM: MinWool-1200® and Sproule WR-1200®.



2019

Curved Segments were introduced for pipe sizes and vessels ranging between 30" – 126"
Curved Segments are 6" W x 36" L segments of Thermo-1200 that are cut on a curvature to match the radius of a large diameter pipe or vessel. Curved Segments offer a more precise fit than scored and v-grooved block, and are supplied in thicknesses of 1.5", 2", 2.5", and 3".



2020

Thermo-1200 meets UL 1709 requirements for up to 60 min when tested
The UL-1709 "Rapid Rise Fire Tests of Protection Materials for Structural Steel" provides ratings expressed in hours. The fire temperature is maintained at 2000°F and is used to provide a means to investigate fire-resistive assemblies intended for areas such as petrochem facilities.

Thermo-1200 received CE Certification*
CE is an administrative certification that indicates conformity with health, safety and environmental protection standards sold within the European Economic Area (EEA).

*Fruita, CO Location Only

