PROTECTION WIA INSULATIONS

THE EVOLUTION OF THERMO-1200® CALCIUM SILICATE:
TOUGHNESS REDEFINED

BY JOHNS MANVILLE INSULATION INTEL®

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.



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.



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.



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



ISO 9001 Quality Management Certification

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



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.



- 1999 - 1999

> Johns Manville (JM) acquired Industrial Insulation Group (IIG), manufacturer of Thermo-12® Gold Calcium Silicate

ISO 9001 Quality Management Certification

ISO 9001 quality management certification.

Two years later, the plant in Fruita, CO, also received

JM provided more R&D capabilities, improved processes, and implemented more rigorous testing procedures for the calcium silicate product line.



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 (11/4" 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®.



2020 ---

Thermo-1200 meets UL 1709 requirements for up to 60 min when tested

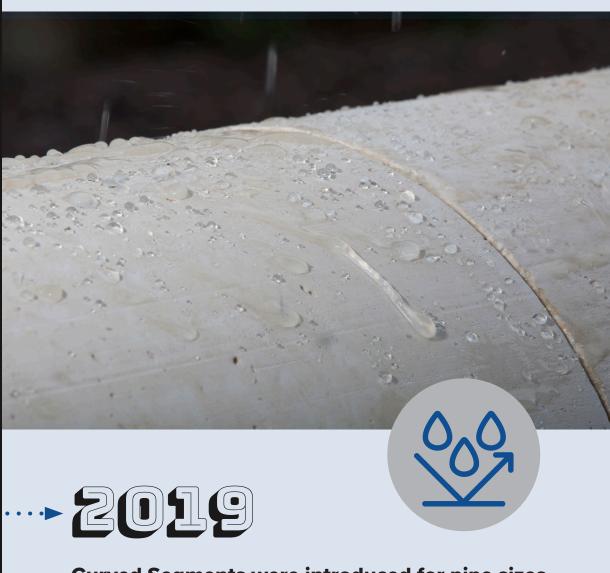
The UL-1709 "Rapid Rise Fire Tests of Protection Materials for Structural Steel" provides ratings expressed in hours. The fire temperature is maintained at 2000°F and is used to provide a means to investigate fire-resistive assemblies intended for areas such as petrochem facilities.

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).

*Eruita CO Location Only

*Fruita, CO Location Only



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".

