

# Cyla<sup>®</sup>Therm

## Inorganic Intumescent Flame Barrier

**CylaTherm** intumescent are members of the Cyla<sup>®</sup>Silicate family, a broad range of products derived from the patented technology of Cylatec, Inc. Inorganic in nature, **CylaTherm** products are safe and effective. They are non-fibrous, non-crystalline, and, in conjunction with a flexible binder, expand to between twenty to thirty times their original volume under high heat conditions into a barrier of non-flammable, fine celled, inert glass insulating foam.

Applications include fire stop caulks, putties, sealants, coatings, tapes, sheets, and composites.

During expansion at 300-500°F, **CylaTherm** products go through a plastic transition state. This plastic transition results in a knitting of the inorganic foam, forming an effective continuous barrier to a flame or heat front. The resultant non-flammable, rigid glass foam has an insulating value of approximately R4 per inch and a melting point of 1200 - 1500°F.

**CylaTherm** products are also endothermic in nature, absorbing between 214 and 243 Btu/lb. (385-437 Cal., gm/gram) during expansion, depending upon the grade selected.

- Non-Fibrous
- Inorganic
- Fine-Celled Foam
- No Toxic Vapors or Residues
- Low Thermal Conductivity
- Acid Resistant
- Corrosion Inhibitor
- Non-Crystalline
- High Expansion Ratio
- High Melting Point
- Plastic Expansion State
- Endothermic
- Vermin Resistant
- Ecologically Friendly

**CylaTherm** is supplied in four grades: **P-20**, **N-30**, **N-50**, and **N-300**. These grades differ primarily in particle size, **P-20** being the coarsest material, and **N-300** the finest.

Samples will be furnished upon request.



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*Proudly Made In America*