Duct Fire Protection Products

Thermal Ceramics, a global manufacturer of high temperature insulation products, has provided engineered solutions for heat containment problems for over 75 years, and was the first to develop flexible fire resistive duct enclosures, marketed under the brandname of FireMaster, for commercial kitchen grease and air ventilation ducts. Unlike imitation wraps in today’s market, Thermal Ceramics has the widest range of duct enclosure products that are performance-tested beyond minimum laboratory listings or code requirements. This assures fire containment, from the typical to the most complex duct designs, without theorizing. Thermal Ceramics innovative duct products are high temperature (2000°F) fire rated solutions that do not age, become brittle, or shrink during in-service operations, like lower temperature mineral wool wraps. The duct products in the FireMaster line are resistant to mold growth in test conditions of 75-95% relative humidity (ASTM D6329). With zero flame and smoke ratings on the blanket, and only a 5 flame spread and 10 smoke rating on the foil encapsulation, Thermal Ceramics duct products do not add toxic emissions to fire conditions. With a vast number of field installations worldwide and over 15 years of successful fire containment in real-world fires, the duct products in the FireMaster line have proven their worth.

Typical Applications

- Commercial Kitchen Grease Ducts
- Chemical Exhaust Ducts
- Hazardous Exhaust Ducts
- Air Ventilation Ducts
- Stair Pressurization Ducts
- Trash and linen chutes

Installation Experience

- Wynn Hotel, Las Vegas, NV - Grease duct
- Baylor University Bio-Science College, Waco, Texas - Chemical exhaust duct
- M.D. Anderson Hospital, Houston, Texas - Grease duct
- Bellagio Hotel, Las Vegas, NV - Grease ducts
- Nationals Park, Washington, D.C. - Grease and air ducts
- McDonalds Restaraunts, Nationwide - Grease ducts
- Herman Memorial Hospital, Houston, TX - Electrical cable tray
- Palazzo Hotel, Las Vegas, NV - Grease duct
- Allure, Las Vegas, NV - Grease duct
- University of California, Irvine - HVAC ducts
- Valero Refinery, Benecia, CA - Electric cable tray
Duct Fire Protection Products

FastWrap XL
- Special fiberization technology for stronger fiber and better fire resistance
- Low biopersistence fiber blanket, capable of withstanding 2000°F continuous temperatures
- Flexible, 1-1/2” thick, 6 pcf
- Non-combustible
- Double layer tested to ASTM E2336 for zero clearance, 1 and 2 hour shaft alternative for grease ducts
- Single layer tested to UL 1978 for zero clearance, 1 and 2 hour shaft alternative for grease ducts
- Single layer tested to ISO 6944 for 1 and 2 hour shaft alternative for air ducts
- UL listed systems
- Building code report ESR 2213 per ICC-ES
- Fully encapsulated for easy handling and installation
- Meets the requirements of the NFPA 96, 2003 and 2006 International Mechanical Code, and 2006 UMC
- Available in space saving 50 and 100 SF cartons
- Available in 48” wide widths for faster and more economical installation

PlenumWrap+
- Low biopersistence fiber blanket, capable of withstanding 2000°F continuous temperatures
- Flexible, 1/2” thick, 8 pcf
- Non-combustible
- Single layer tested to NFPA 262 (UL 910)
- UL and OPL listed systems to reduce flame spread and smoke development of PVC, CPVC, PB, PE, PP, PV, PVDF, and ABS pipes and coated electrical cables in return air plenums
- Fully encapsulated for easy handling and installation