

Fire Protection Information Notice - Ductwrap Insulation

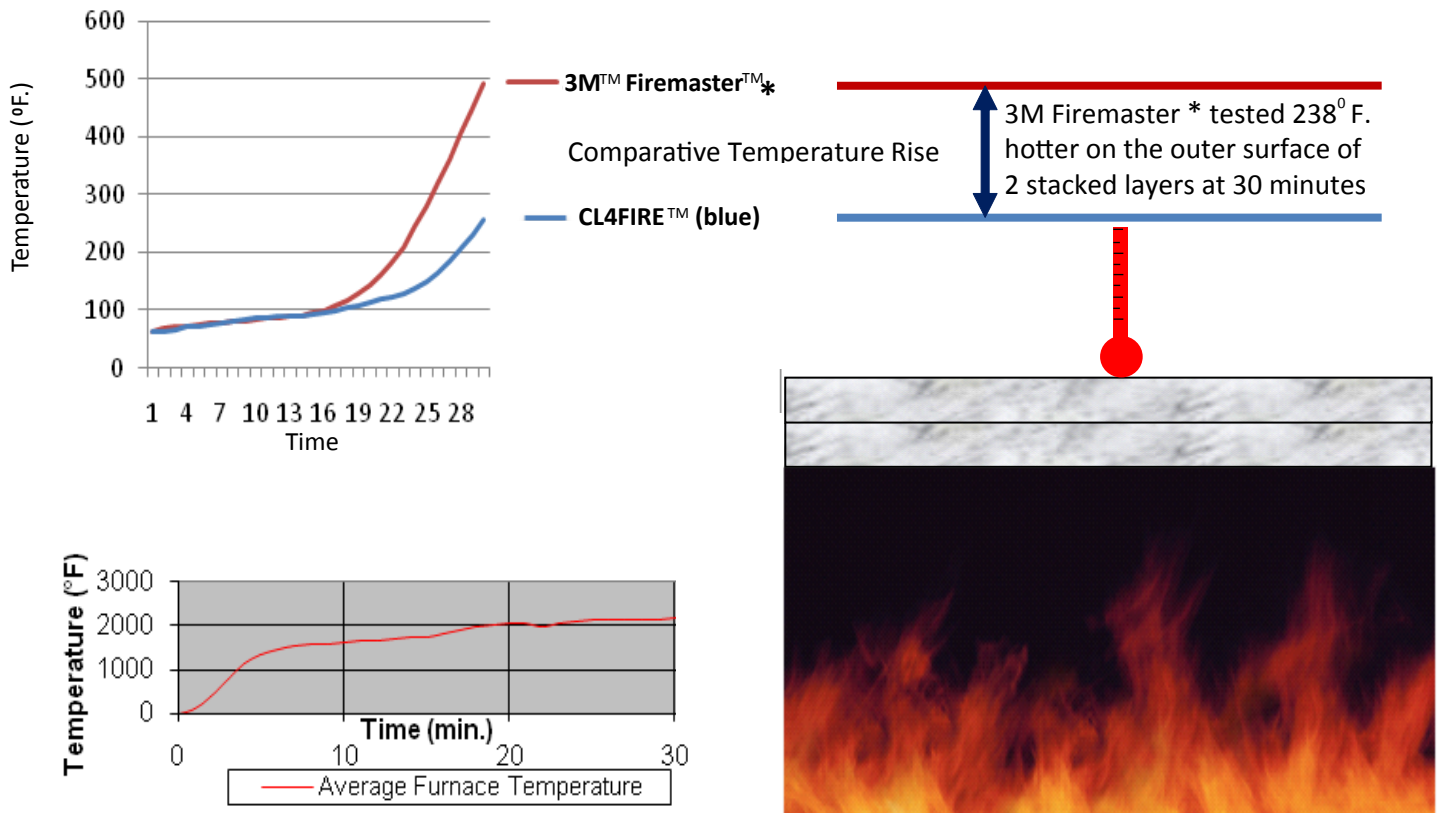
Fire Protection Ductwork Insulation - Mechanical Section 23 (formerly section 15)

*3M™ Firemaster™ Ductwrap and CL4FIRE™ (blue) Fire Protection Thermal Insulation

A 3rd party side by side fire testing comparison of ductwrap insulation products shows that major variances in thermal transmission can occur in fire protection ductwrap insulation products of the same thickness.

Fire protection ductwrap insulation is a product designed to delay heat transmission and protect building occupants and structures from a fire for rated periods of time. The requirement is to provide cooler temperatures on the outside of the insulation and 0" clearances for fire protection of commercial kitchen exhaust ducts and 1 or 2-hour fire rated ductwork. Recent Warnock Hersey fire exposure testing compared two stacked layers (total of 3" or 76mm thickness) of CL4FIRE (blue) Fire Protection Thermal Insulation and the 3M Firemaster ductwrap insulation product. The results of this fire exposure indicates that at the 28 minute point of the review audit the 3M product transmits a substantially larger amount of unwanted heat through the insulation resulting in a significantly higher outer surface temperature approaching 100%** higher than the CL4FIRE (blue) product. The CL4FIRE (blue) Insulation showed clearly superior thermal transmission delay properties as compared to the 3M Firemaster product which continued to increase the heat transmission gap over its competitor through to the end of the 30 minute review period.

Ductwrap Thermal Transmission Comparison Graph



** Information based on temperature measurements in the center of a 2-layer stacked insulation sample over a sheet metal plate during a single fire exposure test using the average furnace temperatures displayed above

*CL4FIRE is a registered trademark of CL4 Inc.

*3M is a registered trademark of the 3M Company

*Firemaster is a registered trademark of Thermal Ceramics Inc.