

HOT SEAL[®]

FURNACE PENETRATION SEALS



AN ENGINEERED SOLUTION

DIFFERENCE FROM COMPETITION	RESULTS IN THE FURNACE	IMPACT ON OPERATION
<ul style="list-style-type: none"> • Customized Engineering • Multi-Layer Material Design • Professional Installation 	<ul style="list-style-type: none"> • Reduces Tramp Air • Reduces NOx Emissions • Improves Heat Distribution • Improves Flue Gas Flow 	<p>Improves</p> <ul style="list-style-type: none"> • Furnace Efficiency • Operational Control



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THORPE	APPROACH	RESULTS
DESIGN	HOTSEAL® ANALYSIS Thorpe analyzes the configuration, operating conditions, tube movement, thermal conditions and installation/maintenance needs.	A customized seal is designed for each application. Every seal system is shop fabricated to an engineered design. Craftsmen are not asked to “make it fit” in the field.
MATERIAL	MULTI-LAYER SYSTEM Based on the analysis, Thorpe’s design may incorporate any combination of high temperature textiles, refractory ceramic fiber, weather-resistant fabrics and foil vapor barriers.	The engineered seal system design... <ul style="list-style-type: none"> - allows for tube movement - reduces radiant heat at the seal - utilizes the most appropriate and cost effective materials - maximizes furnace efficiency and control
INSTALLATION	EXPERIENCED INSTALLATION The HOTSEAL® System is installed by Thorpe trained technicians.	The experience and craftsmanship of the Thorpe team ensures the performance and reliability of the seal system.



Field Fabricated Seal



Engineered HOTSEAL® Penetration Seal System

Comments From Our HOTSEALS® Customers

“The improved furnace uniformity from the use of HOTSEALS® has helped to increase production in our furnace. Our energy costs have also gone down measurably.”

*Reliability Engineer
Major Midwest Olefins Plant*

“HOTSEALS® have proven to be the most cost-effective energy improvement we have found for our aging furnaces.”

*Energy Engineer
Gulf Coast Chemical Plant*



**Thorpe Plant Services, Inc. ■ J T Thorpe Company ■ Thorpe International Services, Inc.
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