

HTM-NS-450

Heat Transfer Cement



Description

HTM-NS-450 heat transfer cement is designed to significantly improve the heat transfer between tracers and process lines. Heat transfer cement thermally bonds steam and electric heat tracers to process pipes, valves, pumps and other equipment. HTM-NS-450 fills the air cavities that normally exist between the heat tracer and process equipment with heat conductive, thermal mastic that efficiently transfers heat through conduction to the process equipment. By replacing the normal air gaps with the heat conductive cement, the heat transfer rates are improved by up to 10 times that of convective heat transfer.

Ratings

Maximum Exposure Temperature: **450°F(232°C)**
Minimum Application Temperature: **15°F(-8°C)**
Heat Transfer Coefficient: **20-40 BTU/Hr-Ft²°F**
(114-227w/m²°C)
Coverage: **1 Gallon = 6 ft.² (1/4" Thick), 12 ft.² (1/8" Thick)**
NOT Soluble in Water
Shelf Life: **Indefinite**

HTM MANUFACTURING
299 IMPERIAL DR.
NEW BRAUNFELS, TX 78132

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HTM-NS-450

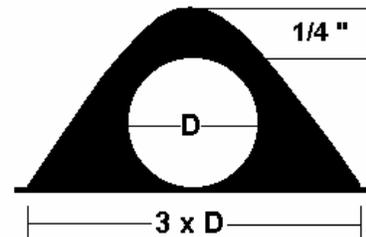
Heat Transfer Cement

Features

- Thermally bonds steam, fluid, and electric heat tracers to process pipes, vessels and equipment.
- With its high conductivity, significantly improves heat transfer between steam and fluid tracer tubes and process pipes; also plate-type steam, fluid and electric heating coils installed on storage and processing tanks.
- Provides an easy to install, cost effective alternative to jacketed piping and internal tracer systems.
- One tracer installed with HTM-450 will deliver the equivalent heat of up to four bare (no HTM) tracers. With the elimination of multiple tracers, the costs to install and maintain the tracing system is greatly reduced.
- Non-setting mastic remains pliable indefinitely and allows for easy disassembly of tracing systems.
- Requires no special curing.



Optional HTM Channel reduces waste, weather protects and eliminates curing requirements



Typical hand trowel application

HTM-NS-450

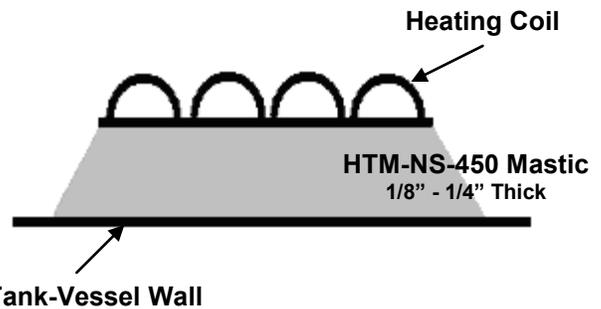
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Installation

- Remove excess dirt and rust from the vessel and heating coil surfaces to ensure complete coverage with the mastic.
- Trowel the mastic evenly over the contact surface areas of the heating coils. The mastic will fill in the irregular surface areas of the coil and vessel wall and provide conductive heat transfer between the coil and vessel wall.
- Following the manufacturer's installation instructions install the coil to the vessel wall. Cover the coil with insulation or weather barrier to prevent moisture flowing between the coil and vessel wall.
- Apply heat when ready. No special curing is required.
- Coverage: **1 Gallon = 6 ft.² (1/4" Thick), 12 ft.² (1/8" Thick)**



Spread evenly over coil surface area filling irregular voids



Thickness 1/4" - 1/8"

Note: Safety Data Sheet (SDS) available.

Ordering Information

HTM-NS-450-1	One Gallon Container	12 Lbs
HTM-NS-450-5	Five Gallon Container	60 Lbs
HTM-NS-450-Q	Quart Size Container	3 Lbs
HTM-NS-450-C	0.10 Gallon Cartridge	1.2 Lbs

Accessories

HTM#2	Metal Channel For 1/4" Tracer(4' Length)
HTM#4	Metal Channel For 1/2" Tracer(4' Length)
HTM#7	Metal Channel For 3/4" Tracer(4' Length)
HTM-SSB	Stainless Steel Banding (100 Ft.)
HTM-SSCR-1	S.S. Crimp Seals for Banding (ea)

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