PRE-INSULATED TUBING
SERIES 2200

HTS Series 2200 Pre-Insulated Tubing Is a thermally insulated fluid transport line suitable for steam, gas, or liquid transport.

Each line is comprised of the following elements:

- Single process tube
- Moisture resistant, non-wicking, Inorganic fibrous glass thermal insulation
- Choice of weather protective jacket

The energy efficient design provides for nominal jacket surface temperatures of 140°F or lower at 80°F ambient conditions while transporting 450°F saturated steam. Higher temperature designs for applications up to 1100°F are available in product series 2210.

Additional features of this product are:

- Compact Design
- Low heat loss
- Light, durable, easy to handle
- Zero maintenance
- Employee protection
- Continuous lengths up to 1000 feet
- Easy to Install
- Cost savings up to 50% over field fabrication

Applications for this product:

- Steam supply lines
- Condensate return lines
- Gas transport lines
- Liquid transport lines

Stock Items in this Series:

- 2200-21A30
- 2200-20A35
- 2200-31A32
- 2200-30A35
- 2200-41A35
- 2200-40-A35
- 2200-41A39
- 2200-47A35

Standard Outer Jacket Materials

- 105°C Rated Flame-Retardant PVC
- 125°C Rated Flame-Retardant TPE
- Halogen-Free Flame-Retardant TPU

Standard Tubing Materials

- Welded or Seamless type 316/316L stainless steel
- #122DHP Seamless Copper
- PFA Fluoropolymer

Pre-Insulated Tubing Accessories:	Item Number:
Seal Tite End Boots Single Tube	BOOT-1
Uniseal Cable Entry Seals	
for Bundles up to 1.375"	Seal 1.60
for Bundles up to 2.62"	Seal 2.75
Unicut Bundle Jacket Cutter	1631-11001
RTV Silicone End Sealant	
3 oz tube	1535-02080
10.3 oz cartridge	1535-02120
Seal Patch Kits	
8" x 8" Single Self-Sealing Patch	1540-10000
8" x 25 foot Self-Sealing Roll	1540-20000

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Tube OD	Standard Wall Thickness [1]	Material [2]	ASTM Std	Working Pressure @ 450°F [3] [4]	Nominal Heat Loss @ 400°F	Nominal Bundle OD	Nom. Weight lb/ft	Min Bend Rad
1/4"	0.032"	#122DHP Copper	B-68, B-75	710 PSI	50 BTU/Hr-Ft	1.00"	0.3	6"
3/8"	0.032"	#122DHP Copper	B-68, B-75	450 PSI	50 BTU/Hr-Ft	1.15"	0.4	7"
1/2"	0.035"	#122DHP Copper	B-68, B-75	360 PSI	59 BTU/Hr-Ft	1.25"	0.4	8"
1/2"	0.049"	#122DHP Copper	B-68, B-75	530 PSI	59 BTU/Hr-Ft	1.25"	0.5	8"
3/4"	0.049"	#122DHP Copper	B-68, B-75	340 PSI	79 BTU/Hr-Ft	1.50"	0.7	9"
1/4"	0.035"	316/316L– S/S WLD	A-269	4007 PSI	42 BTU/Hr-Ft	1.00"	0.3	6"
3/8"	0.035"	316/316L– S/S WLD	A-269	2563 PSI	50 BTU/Hr-Ft	1.15"	0.4	7"
1/2"	0.035"	316/316L– S/S WLD	A-269	1885 PSI	59 BTU/Hr-Ft	1.25"	0.4	8"
1/2"	0.049"	316/316L– S/S WLD	A-269	2703 PSI	59 BTU/Hr-Ft	1.25"	0.5	8"
1/4"	0.040"	PFA Fluoropolymer	D-6867	30 PSI	42 BTU/Hr-Ft	1.00"	0.2	6"
3/8"	0.062"	PFA Fluoropolymer	D-6867	40 PSI	50 BTU/Hr-Ft	1.15"	0.3	7"
1/2"	0.062"	PFA Fluoropolymer	D-6867	30 PSI	59 BTU/Hr-Ft	1.25"	0.3	8"

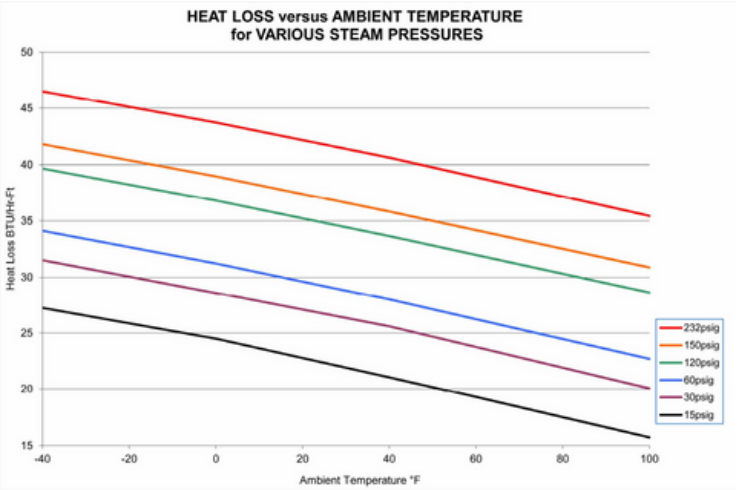
Notes:
(1) other wall thickness are available
(2) alternate metal and polymer tubing materials are available
(3) working pressure based on welded tube, seamless will be higher.
(4) Maximum tube temperature for Copper and Fluoropolymer tubes is 400°F
Contact Dekoron Unitherm for alternate materials

Notes:
Standard outer jacket is a 105°C Rated flame retardant PVC, alternate jackets are a 125°C Rated, flame retardant Thermoplastic polyolefin (TPE) and a flexible, halogen-free flame retardant Thermoplastic urethane (TPU)

Contact Dekoron Unitherm for alternate materials

How to use this graph:

1. Find the minimum ambient temperature for the area where the bundle is installed.
2. Draw a line vertically to the line closest to the normal steam pressure used.
3. Read the Heat Loss from the left side of the graph.
4. Multiply the Heat Loss shown on the graph by the multiplier below for the size tubing used.



Heat Loss Multipliers:

1/4"	3/8"	1/2"	3/4"
1.0	1.3	1.5	1.9

Installation note:

HTS Pre-Insulated tubing bundles are supplied on sturdy wooden reels with continuous splice-free lengths up to 1000 feet depending upon tubing material, tubing OD and wall thickness. It is easily pulled into place and Installed using normal hand tools. 2200 Pre-Insulated tubing is flexible and can be easily formed into place by hand or by using a bending mandrel.
For heavy wall tubing, HTS recommends using a BNDL-BNDR bending tool. Contact HTS for more details.