HighTemperature Pre-Insulated Tubing Series 2210

Imperial Sizes



700°F to 1100°F ASTM A269, A213 Steam, Gas, or Liquid Transport.

Applications

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

Features

- · 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
- · Made in USA

Tubing Materials:

- Welded or Seamless type 316/316L stainless steel to ASTM A269 and ASTM A213 (Except Average Wall)
- Seamless type 316/316L minimum wall stainless steel to ASTM A213
- Most High Temperature stainless steel alloys
- Most High Temperature nickel-based alloys
- Welded or Seamless type 316/316L stainless steel to ASTM A269 and ASTM A213 (Except Average Wall)
- Seamless type 316/316L minimum wall stainless steel to ASTM A213
- Most High Temperature stainless steel alloys
- Most High Temperature nickel-based alloy

Standard Outer Jacket Materials:

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

Scope

Series 2210 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 metal process tube
- ·Moisture resistant, non-wicking, inorganic fibrous glass thermal insulation
- Choice of weather protective iacket

The energy-efficient design provides for nominal jacket surface temperatures of 170°F or lower at 80°F ambient conditions while transporting 700°F saturated steam. Bundles can be designed for applications operating at process temperatures up to 1100°F.

Tubing and jacket selections for these higher temperatures are limited. Contact us for more information on designs for 700°F to 1100°F.

Pre-Insulated Tubing Accessories:

Seal-Tite End Boots

Single Tube up to 750°F BOOT-1 Single Tube above 750°F BOOT-1-3-3

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 1631-01001

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 8" x 25 foot Self-Sealing Patch

1540-10000 1540-20000

Part #

For assistance ordering this product, please contact your Marmon Industrial Energy & Infrastructure representative Also Contact us for more information on available tubing materials as sizes.



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Product Specifications 2210 Pre-Insulated Tubing:

Op Tube	Tube OD	Tube Wall ⁽¹⁾	Material ⁽²⁾	ASTM Std	Wrk Press. Op. Temp ⁽³⁾	Jacket Temp °F ⁽⁴⁾	Nom. Bundle OD	Nom. Weight Ib/ft	Min Bend Rad
500	1/4"	0.035"	316/316LS/S WLD	A-269/A213 EAW	3850 PSI	120	1.15"	0.45	7"
500	3/8"	0.035"	316/316LS/S WLD	A-269/A213 EAW	2450 PSI	125	1.30"	0.50	8"
500	1/2"	0.035"	316/316LS/S WLD	A-269/A213 EAW	1810 PSI	125	1.60"	0.57	10"
500	3/4"	0.049	316/316LS/S WLD	A-269/A213 EAW	1680 PSI	145	1.70"	0.69	11"
600	1/4"	0.035"	316/316LS/S WLD	A-269/A213 EAW	3600 PSI	120	1.50"	0.50	9"
600	3/8"	0.035"	316/316LS/S WLD	A-269/A213 EAW	2300 PSI	125	1.65"	0.55	10"
600	1/2"	0.035"	316/316LS/S WLD	A-269/A213 EAW	1700 PSI	140	1.90"	0.70	11"
600	3/4"	0.049	316/316LS/S WLD	A-269/A213 EAW	1580 PSI	150	1.85"	0.85	11"
750	1/4"	0.035"	316/316LS/S WLD	A-269/A213 EAW	3380 PSI	120	1.85"	0.60	11"
750	3/8"	0.035"	316/316LS/S WLD	A-269/A213 EAW	2160 PSI	135	1.95"	0.64	12"
750	1/2"	0.035"	316/316LS/S WLD	A-269/A213 EAW	1590 PSI	145	1.95"	0.65	12"
750	3/4"	0.049	316/316LS/S WLD	A-269/A213 EAW	1480 PSI	150	2.35"	1.05	14"
1100	1/4"	0.035"	316/316LS/S WLD	A-269/A213 EAW	3900 PSI	150	2.00"	0.75	26"
1100	3/8"	0.035"	316/316LS/S WLD	A-269/A213 EAW	1900 PSI	155	2.15"	0.78	27"
1100	1/2"	0.035"	316/316LS/S WLD	A-269/A213 EAW	1400 PSI	180	2.30"	0.82	27"
1100	3/4"	0.049	316/316LS/S WLD	A-269/A213 EAW	1300 PSI	155	2.75"	1.02	27"

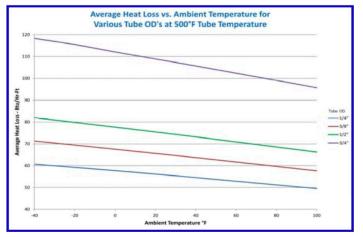
Note:(1) other wall thickness are available

(2) alternate metal and polymer tubing materials are available

(3) working pressure based on welded tube, seamless will be

(4) jacket temperature based on 80°F ambient and 2 mph wind minimum bend radius based on FR-TPE jacket for 1100°F

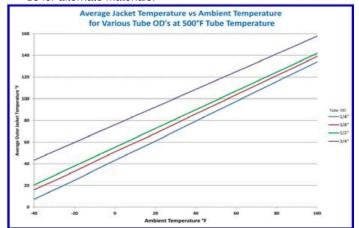
bundles. Contact us for alternate materials



Heat Loss Multipliers

Process Temp	Multipliers				
500	1.0				
600	1.1				
750	1.2				
1000	1.8				

Note: Standard outer jacket is a 105°C Rated flame retardant PVC for bundles with an operating temperature up to 750°F, alternate jackets are a 125°C Rated, flame retardant Thermoplastic polyolefin (FR-TPE) and a flexible, halogen-free flame retardant Thermoplastic urethane (FR-TPU). Only jacket available for bundles rated above 750°F is 125°C Rated FR-TPE. Contact us for alternate materials.



Jacket Temp Multipliers

Process Temp	Multipliers
500	1.0
600	1.2
750	1.5
1000	1.7

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