

# High Temp Pre-Insulated Tubing

IMPERIAL SIZES

Series 2210

DEKORON<sup>®</sup>  
**Unitherm**<sup>™</sup>  
Tubing Bundle Experts Since 1962

Dekorons<sup>®</sup> Unitherm<sup>™</sup> 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 jacket**

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 Dekorons Unitherm for more information on designs for 700°F to 1100°F.

## 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**

## Standard Outer Jacket Materials

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

For assistance ordering this product, please contact your Dekorons<sup>®</sup> Unitherm<sup>™</sup> representative.



## 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**

Contact Dekorons Unitherm for more information on available tubing materials as sizes.

## Pre-Insulated Tubing Accessories:

	Item Number
<b>Seal-Tite End Boots</b>	
Single Tube up to 750°F	BOOT-1
Single Tube above 750°F	BOOT-1-3-3
<b>Uniseal Cable Entry Seals</b>	
for Bundles up to 1.375"	Seal 1.60
for Bundles up to 2.62"	Seal 2.75
<b>Unicut<sup>™</sup> Bundle Jacket Cutter</b>	1631-01001
<b>RTV Silicone End Sealant</b>	
3 oz. tube	1535-02080
10.3 oz. cartridge	1535-02120
<b>Seal Patch Kits</b>	
8" x 8" Single Self-Sealing Patch	1540-10000
8" x 25 foot Self-Sealing Roll	1540-20000

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## IMPERIAL SIZES

## Series 2210

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### Product Specifications 2210 Pre-Insulated Tubing

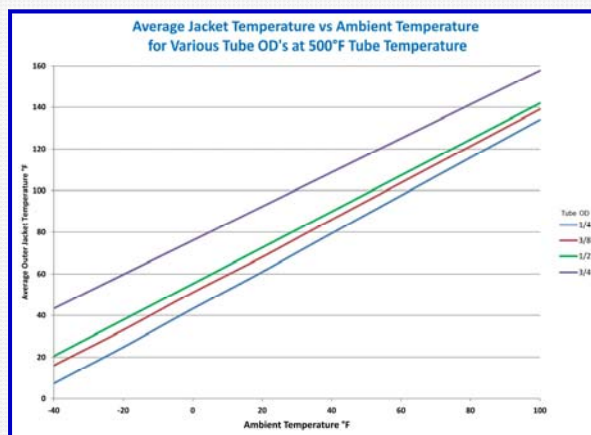
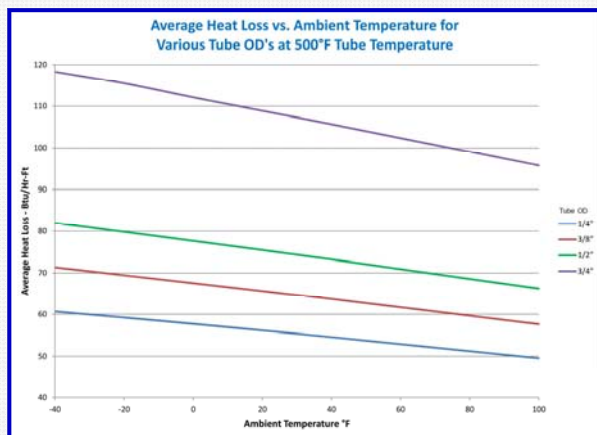
Op Temp	Tube OD	Tube Wall <sup>(1)</sup>	Material <sup>(2)</sup>	ASTM Std	Wrk Press. Op Temp <sup>(3)</sup>	Jacket Temp °F <sup>(4)</sup>	Nom Bundle OD	Nom. Weight lb/ft	Min Bend Rad <sup>(5)</sup>
500	1/4"	0.035"	316/316LS/S WLD	A-269/A213 EAW	3850 PSI	120	1.15"	0.45	7"
500	3/8"	0.035"	316/316L S/S WLD	A-269/A213 EAW	2450 PSI	125	1.30"	0.50	8"
500	1/2"	0.035"	316/316L S/S WLD	A-269/A213 EAW	1810 PSI	125	1.60"	0.57	10"
500	3/4"	0.049"	316/316L S/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"	316/316L S/S WLD	A-269/A213 EAW	2300 PSI	125	1.65"	0.55	10"
600	1/2"	0.035"	316/316L S/S WLD	A-269/A213 EAW	1700 PSI	140	1.90"	0.70	11"
600	3/4"	0.049"	316/316L S/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"	316/316L S/S WLD	A-269/A213 EAW	2160 PSI	135	1.95"	0.64	12"
750	1/2"	0.035"	316/316L S/S WLD	A-269/A213 EAW	1590 PSI	145	1.95"	0.65	12"
750	3/4"	0.049"	316/316L S/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	3000 PSI	150	2.00"	0.75	26"
1100	3/8"	0.035"	316/316L S/S WLD	A-269/A213 EAW	1900 PSI	155	2.15"	0.78	27"
1100	1/2"	0.035"	316/316L S/S WLD	A-269/A213 EAW	1400 PSI	180	2.30"	0.82	27"
1100	3/4"	0.049"	316/316L S/S WLD	A-269/A213 EAW	1300 PSI	155	2.75"	1.02	27"

**Notes:**

- (1) other wall thickness are available in coils. Extra heavy wall tubing and larger diameters may only be available in stick lengths.
  - (2) alternate metal tubing materials available, not available with copper or polymer tubes
  - (3) working pressure based on welded tube, seamless will be higher.
  - (4) jacket temperature based on 80°F ambient and 2 mph wind
  - (5) minimum bend radius based on FR-TPE jacket for 1100°F bundles
- Contact Dekoron Unitherm for alternate materials

**Notes:**

- 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 Dekoron Unitherm for alternate materials



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**Heat Loss Multipliers**

Process Temp	Multiplier
500	1.0
600	1.1
750	1.2
1000	1.8

**Jacket Temp Multipliers**

Process Temp	Multiplier
500	1.0
600	1.2
750	1.5
1000	2.7

For additional information visit our website:  
[www.unithermcc.com](http://www.unithermcc.com)

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