

# Heating Cable

## 2210 Series Pre-Insulated Tubing

- Compact Design
- Consistent Heat Loss
- Light, Durable, Easy to Handle
- Zero Maintenance
- Employee Protection
- Continuous Lengths up to 1000 Feet (305 m)
- Easy to Install
- Cost Savings of up to 50% Over Field Fabrication



### Description

The Chromalox Series 2210 pre-insulated tubing is a thermally insulated transportation line suitable for steam, gas or liquid transport. Each line is comprised of the following elements:

- Metal process tube
- Moisture-resistant, non-wicking, inorganic fibrous glass thermal insulation
- Weather protective, flame retardant, lead-free, low-temperature PVC jacket

Tubing, insulation and outer jacket materials are selected to meet the customer's specific application.

The bundles are designed to maintain an average outer jacket temperature below 170°F (77°C) at continuous operating temperatures up to 700°F (371°C). Bundles can be designed for applications up to 1100°F (593°C). Please note that tubing sizes and materials are limited in design for applications above 700°F.

### Applications

- Steam Supply Lines
- Gas Transport Lines
- Liquid Transport Lines

### Jacket Material

Standard jacket is a 105°C rated, lead free, low temperature FRPVC. Flame retardant FRTPE and FR-Urethane are also available.

### Tubing

Welded or Seamless Type 316 and Type 316L meeting ASTM A-269 or ASTM A-213 A-213 EAW (except average wall) for special applications. A wide range of high temperature tubing materials are available. Contact your local sales representative for additional information.

### Accessories

Pre Insulated Tubing Accessories	
<b>Seal-Tite End Boots</b>	
<b>Uniseal Cable Entry Seals</b>	
4.5" Length	
7.0" Length	
<b>Unicut™</b>	
<b>End Sealant</b>	
3 oz. tube	
End Sealant 10.3 oz. Cartridge	
<b>Sealing Patch Kits</b>	
8" x 8" Self-Sealing Patch	
8" x 8" Self-Sealing Roll	

# Heating Cable

## 2210 Series Pre-Insulated Tubing (cont'd.)

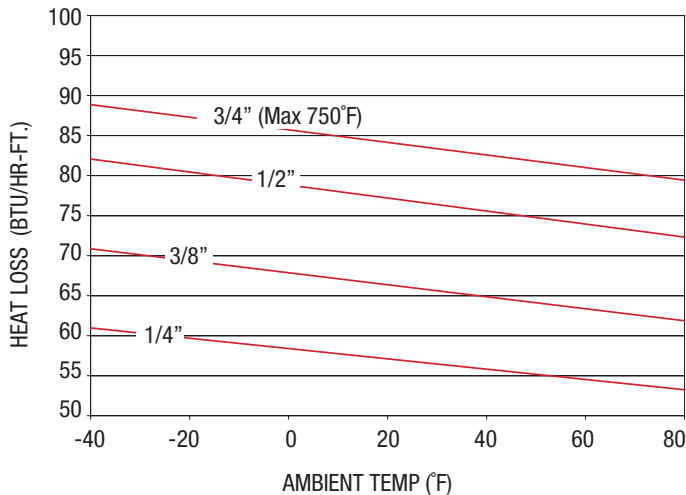
### Technical Specifications - 2210 High Temperature Pre-Insulated Tubing

OP Temp	Tube OD	Tube Wall Size (In.)	Bundle OD (In.)	Weight/Ft Lbs/Ft	Min. Ben Radius (In.)	Average Jacket Temp.	Tube WP (PSIG)
500	1/4"	0.035	1.12	0.37	9	<140	5600
500	3/8"	0.035	1.43	0.48	11	<140	3600
500	1/2"	0.035	1.54	0.53	12	<140	2650
500	3/4"	0.049	2.00	0.72	16	<140	1700
600	1/4"	0.035	1.50	0.44	12	<140	4250
600	3/8"	0.035	1.60	0.49	13	<140	2720
600	1/2"	0.035	1.90	0.54	15	<140	2000
600	3/4"	0.049	2.20	0.73	18	<140	1860
750	1/4"	0.035	2.00	0.72	16	140	3980
750	3/8"	0.035	2.50	0.75	20	145	2550
750	1/2"	0.035	2.75	0.80	22	145	1870
750	3/4"	0.049	3.30	1.00	24	150	1740
1100	1/4"	0.035	3.00	0.73	24	190	3320
1100	3/8"	0.035	3.30	0.73	24	200	2100
1100	1/2"	0.035	3.50	0.81	24	215	1500
1100	3/4"	not available	--	--	--	--	--

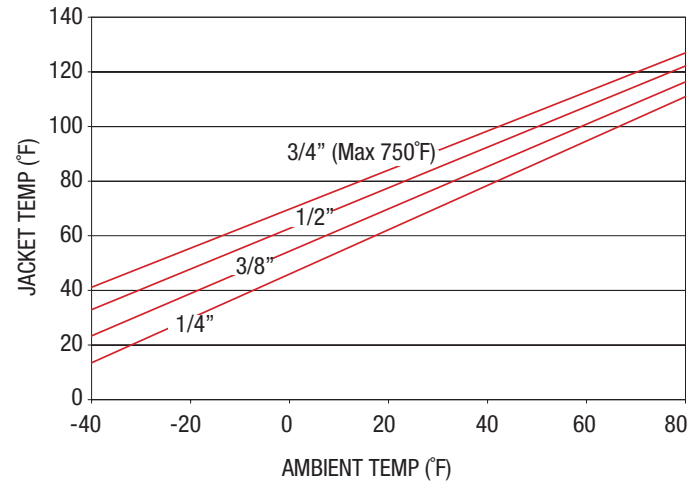
#### Notes:

- (1) Weight does not include shipping wheel
- (2) Minimum unsupported bend
- (3) Average calculated at maximum continuous operating temperature and 80°F ambient
- (4) Working pressure from AISI B31.3 Tables for 0.035" wall seamless T316 tubing at maximum operating temperature, rounded to the nearest 50 psi

*Average Heat Loss vs. Ambient Temperature for Various Tube OD's at 400°F Tube Temperature*



*Average Jacket Temperature vs. Ambient for Various Tube OD's at 400°F Tube Temperature*



#### Jacket Temperature Multipliers

Process Temperature	Multiplier
500	1.0
600	1.1
750	1.2
1000	1.8

#### Heat Loss Multipliers

Process Temperature	Multiplier
500	1.0
600	1.1
750	1.2
1000	1.8