

Pre-Insulated Tubing Series 2210

DEKORON®/Unitherm™ 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.

Additional features of this product are:

- **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**

Applications for this product:

- **Steam supply lines for lines with high operating or low blow-down temperature**
- **Gas or liquid transport lines with high cleanout or run temperature**

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 Dekoron/Unitherm representative for additional information.



Pre-Insulated Tubing Accessories

Product Number

Seal-Tite End Boots	BOOT-1
Uniseal Cable Entry Seals	
4.5" Length	Seal 1.60
7.0" Length	Seal 2.75
Unicut™	1631-01001
End Sealant	
3 oz. tube	1535-02080
End Sealant 10.3 oz. Cartridge	1535-02120
Sealing Patch Kits	
8" x 8" Self-Sealing Patch	1540-10000
8" x *" Self-Sealing Roll	1540-20000

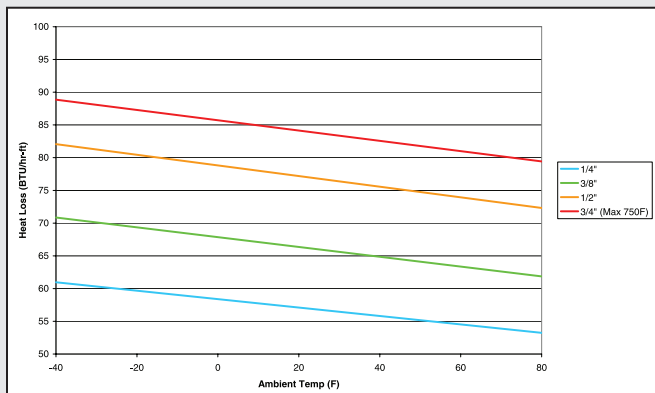
Technical Specifications - 2210 High Temperature Pre-Insulated Tubing

OP Temp	Tube OD	Tube Wall (in)	Bundle OD (in.)	Weight/ft (Lbs/ft)	Min Bend Rad (in)	Avg Jkt 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	--	--	--	--	--

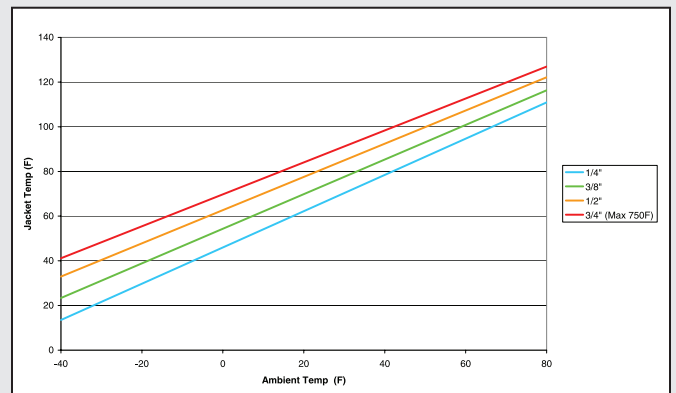
NOTES:

- (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 400F Tube Temperature



Average Jacket Temperature vs. Ambient for Various Tube OD's at 400F 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	1.2
750	1.5
1100	2.7