

UNITHERM™ 2210 PRE-INSULATED TUBING BUNDLES FOR HIGH TEMPERATURE APPLICATION

Principal of Operation

Unitherm 2210 pre-insulated tubing is a thermally insulated steam, gas or liquid transportation line. It contains a metal process tube surrounded by thermal insulation and covered by weather resistant, flame retardant outer jacket. Tubing, insulation and outer jacket materials are chosen to meet the customer's specific application. These bundles are designed to maintain an average jacket temperature below 170°F at continuous operating temperatures up to 700°F. Bundles can be designed for applications up to 1100°F. Tubing size and materials are limited in design for applications above 700°F.

Features

Pre-insulated and prefabricated for fast, easy installation. Consistent heat loss Weather resistant outer jacket

Applications

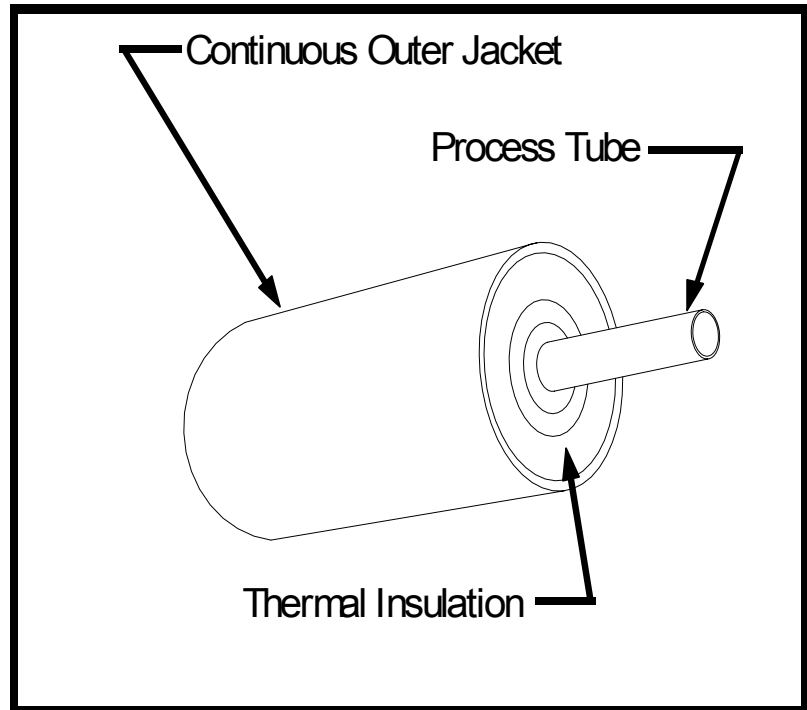
Steam Supply Line for lines with high operating or blow-down temperature
Gas or liquid transport lines with high cleanout or run temperature

Jacket Material

Standard material is a 105°C rated FRPVC. This is also available in a FRPVC low temperature version for applications where installation temperature is as low as -20°F. Thermoplastic Polyurethane and Theroplastic Elastomer also available For low installation temperature applications.

For 700°F and higher process tube temperatures, a 125°C rated Thermoplastic Elastomer is recommended.

Thermoplastic Polyurethane and Linear Low Density Polyethylene jackets are also available for special applications. All jacket materials are UV and Weather resistant as well as flame retardant.



Tubing

Welded or Seamless Type 316 and Type 316L meeting ASTM A-269
A-213 (minimum wall)
A213 EAW (except average wall) for special applications

Materials available by special order

Seamless Type 316 and Type 316H meeting ASTM A-213
Hastelloy® C-276
Hastelloy® B-2
Inconel® 600 and 625
Incoloy® 825
Alloy 20
Contact Unitherm for additional materials.

*Hastelloy is a trade name of Haynes International, Inc.

*Monel, Inconel, and Incoloy are trade names of Inco Alloys International, Inc.

DEKORON/UNITHERM™

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NOTES:

- (1) Weight does not include shipping reel
- (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 nearest 50 psi.

Tube O.D	Bundle OD (In.)	Weight/ft. (Lbs/ft.) (1)	Min. Bend Radius (in.) (2)	Avg. Jacket Temperature °F (3)	Tube Working Pressure (Psig) (4)
500°F (continuous) rated bundle					
1/4"	1.12	0.35	11	115	5600
3/8"	1.43	0.50	14	116	3600
1/2"	1.54	0.57	15	122	2650
3/4"	2.00	0.80	20	127	1700
700°F (continuous) rated bundle					
1/4"	1.80	0.58	23	130	5100
3/8"	1.92	0.67	25	137	3250
1/2"	2.40	0.95	31	140	2400
3/4"	3.00	1.30	39	147	1550
1100°F (continuous) rated bundle					
1/4"	3.20	1.35	42	196	3900
3/8"	3.30	1.44	43	205	2500
1/2"	3.40	1.55	44	215	1800

How To Order

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Process Tube O.D.	Process Tube Material	Tube Wall Thickness	Operating Temperature	Jacket Material
2= 1/4"	0= Wld T316 SS	35= 0.035"	500 = 500°F	1= FR LT PVC
3= 3/8"	7= Smls T316 SS	49= 0.049"	600 = 600°F	2= FR TPE
4= 1/2"	8= Monel 400*	65= 0.065"	700 = 700°F	3= FR PE
6= 3/4"	9= Wld T316L SS		800 = 800°F	5= FR Urethane
	A= Smls T316 SS		1000 = 1000°F	
	F= Smls Inconel 600*		1100 = 1100°F	
	G= Incoloy 825*			
	H= Hastelloy C-22*			
	J= Hastelloy C-276*			
	L= Alloy 20			
	Z= Other Tube Material			

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