

Insulated Jacketed Tubing

- COILED
- STICK
- **CUT TO LENGTH**



Pre-Insulated Tubing

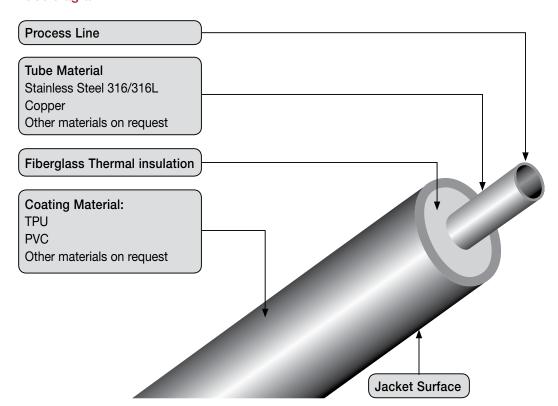
UTC Pre-Insulated tubing is designed for the applications where a minimum heat loss is requested. This product provides a solution for maintaining a stable temperature along the line with a minimum preserved energy. The maintenance of applications such as steam supply and condensate return takes much installation time, shut off lines in the jobsite and in many cases loss of productivity and profits. The solution is a thermally protection on the line by the usage of Pre-Insulated tubing.

It is highly recommended to be used where ambient temperature tends to vary between day to night and in cases where it drops down to freeze conditions. The Pre-Insulated tube also protects the personnel from contacting directly with the high temperature lines and contributes to the safety working environment. The usage of the Pre-Insulated tubing contributes to a clean environment where less energy is consumed.

Features

- 1. 1/4 to 1/2 in. and 6 to 12 mm tubing sizes available in 316/316L Stainless Steel and Copper.
- 2. Seamless, welded tubing and set tube stick available in Stainless Steel
- 3. Jacketing materials available: TPU and PVC other materials available on customer request
- 4. Pre-Insulated tube, contributes to the personnel safety
- 5. Light and easy for installation
- 6. Withstand tough weather conditions and most efficient in compare to pipe usage in steam applications

Pre-Insulted Tube diagram





Technical Data

Metric

Tube OD	Wall Thickness	Working Pressure		Max Process Temperature	Min Service and Installation Temperature	Min Jacket Tube OD*	Support Centers		Min Bend Radius		
mm	mm	bar		C°	C°	mm	m		cm		
		Seamless	Welded				Horizontal Vertical				
	Annealed 316 Stainless Steel Tubing complying with ASTM A213 or A269 - Max Process Temperature 250°C										
6	1.0	357	286	105 PVC Jacket	-34 Service	28.60	- 1.80	4.60	20.00		
6	1.2	459	367								
10	1.0	204	163			32.60					
10	1.2	255	204	125 TPU Jacket***	-23 Installation	34.60					
10	1**	170	136								
12	1.2	212	170	11 O Jacket							
	Annealed	Copper To	ubing con	nplying with ASTN	И B68, B75 - Max	Process Tempera	ature 200°0	;			
	1.0	55				28.60	- 1.80	4.60	20.00		
6	1.2	86		105 PVC Jacket	-34 Service						
10	1.0	34				32.60					
10	1.2	55			-23 Installation	34.60					
10	1**	28		125 TPU Jacket***							
12	1.2	38		11 O dacket	mistallation						

Fractional

Tube OD	Wall Thickness	Working Pressure		Max Process Temperature	Min Service and Installation Temperature	Min Jacket Tube OD*	Support Centers		Min Bend Radius
in.	in.	ps	ig	°F	°F	in.	ft		in.
		Seamless	Welded				Horizontal	Vertical	
	Annealed 316 Sta	ainless Ste	el Tubing	complying with A	STM A213 or A26	9 - Max Process	Temperatu	re 482 °F	
4 / 4	0.035	4420	3536		-30 Service	1.14	6.00	15.00	8.00
1/4	0.049	6460	5168	221 PVC Jacket					
0.40	0.035	2850	2280			1.26			
3/8	0.049	4122	3298		-10 Installation	1.39			
1 /0	0.035**	2250	1800	257 TPU Jacket***					
1/2	0.049	3180	2544	TI O backet					
	Annealed	Copper Tu	ubing con	nplying with ASTN	И B68, B75 - Max	Process Tempera	ature 400 °	F	
4 / 4	0.035	800		221 PVC Jacket	-30 Service	1.14	- 6.00	15.00	8.00
1/4	0.049	1250							
0.40	0.035	500				1.26			
3/8	0.049	800			-10 Installation	1.39			
4 (0	0.035**	400		257 TPU Jacket***					
1/2	0.049	550		11 O Odoket	motanation				

^{*} Note: Standard Coating Wall Thichness 1.3mm (0.052'')

Specifications are for reference only and are subject to change without notice Actual product dimentions may vary from the catalog dimentions

WARNING! For Your Safety the system designer have the sole responsibility to select the products suitable for their special application requirements and to ensure the proper installation, operation and maintenance of the product. Please concider application details, material compatibility and product ratings when making your selection. Improper selection or use of products can cause property demage and or personal injury



^{**}Note: Not recommended to use with Gas service

^{***} Maximum process temperature NOT continuous temperature rating which is 105 Deg C according to UL 1581. Please contact us for more information about heat tolerance.

Heat Energy Loss (Kcal and Btu Units)

The below tables provide the data for the loss of the heat energy in ralation to the change in the ambient temperature. The tubes are pre insulated with special fiberglass material as well coated with TPU or PVC material.

Technical Data

Metric

1/4", 3/8", 1/2" (6 mm, 10 mm, 12 mm) Tubing - Heat Loss in Kcal/h-m Units										
Ambient Temperature °C		emperature 25 acket Temperat			Temperature 20 acket Temperat		Process Temperature 150 °C Max surface Jacket Temperature 40 °C			
	1/4" and 6 mm Tubing	3/8" and 10 mm Tubing	1/2" and 12 mm Tubing	1/4" and 6 mm Tubing	3/8" and 10 mm Tubing	1/2" and 12 mm Tubing	1/4" and 6 mm Tubing	3/8" and 10 mm Tubing	1/2" and 12 mm Tubing	
-50	48	63	70	40	52	58	32	42	46	
-40	46	60	67	38	50	55	30	39	44	
-30	45	58	65	36	47	53	28	37	41	
-20	43	56	62	35	45	50	27	35	39	
-10	41	53	59	33	43	48	25	33	36	
0	39	51	57	31	41	45	23	30	34	
10	37	49	54	30	38	43	22	28	31	
20	36	47	52	28	36	40	20	26	29	
30	34	44	49	26	34	38	18	24	27	
40	32	42	47	25	32	35	17	22	24	
50	31	40	44	23	30	33	15	20	22	

Fractional

i raotionai										
		1/4'', 3/8	'', 1/2'' (6 mm,	10 mm, 12 mi	m) Tubing - He	at Loss in Btu	/h-ft Units			
Ambient Temperature °F		Temperature 48 acket Temperat			Temperature 39 acket Temperat		Process Temperature 302 °F Max surface Jacket Temperature 104 °F			
	1/4" and 6 mm Tubing	3/8" and 10 mm Tubing	1/2" and 12 mm Tubing	1/4" and 6 mm Tubing	3/8" and 10 mm Tubing	1/2" and 12 mm Tubing	1/4" and 6 mm Tubing	3/8" and 10 mm Tubing	1/2" and 12 mm Tubing	
-60	53	71	78	45	59	65	36	47	52	
-40	52	68	75	43	56	62	34	44	49	
-20	49	65	72	40	53	59	32	41	46	
0	47	69	72	38	50	55	29	38	43	
20	45	59	65	36	47	52	27	36	39	
40	43	56	62	34	44	49	25	33	36	
60	40	53	59	32	42	46	23	30	33	
80	38	50	56	30	39	43	21	28	31	
100	36	48	53	28	36	40	19	25	28	
120	34	45	50	26	33	37	17	22	25	

NOTE: The maximum jacket surface temperature is 58 °C (136°F) with a process temperature of 250 °C (480°F), an ambient temperature of 24 °C (75.2°F) and a wind velocity of 12 km/h (7.45m/h)

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How to order

Build a Single, Thermal insulated or Own customer jacket tubing ordering number by combining the designators in the sequence shown below.



Model

SJ = Single Jacket

TJ = Thermal-Insulated Jacket

CT = Customer Tube*

* UTC offers the unique coating services for the customer's bare tubes. We accept coiled (on or without reel) and straight tubes. Read more at our UTC special service section in this catalog.

II Material

SS = 316/316L Stainless Steel

CU = Copper

Other tubing materials may be offered on request

Tube Data

Size Number per Inch, Number + M for MM size

MM=6, 10, 12, 18, 25

Inch: 4=1/4, 6=3/8, 8=1/2, 12=3/4, 16=1

Tube model S (Seamless)

W (Welded)

ST (Stick of 6M)

Wall Thickness Number per Inch, Number +M for MM size

Jacket Raw Material

TP = TPU

PV = PVC

Length Number per feet Number + M per Meter

Marking

On each jacket tube will be a marking of the following:

Manufacturer name, model, Coating material, Tube data, Process temperature, Batch No. (for traceability), Meter/Feet count Optionally a Caution Notice





UNITED TUBES COMPANY