



# S-LINE

## SINGLE LINE PREINSULATED TUBING

O'Brien **S-LINE** single line preinsulated tubing is designed specifically for liquid and gas transport lines where heat loss, weatherproofing, and personnel protection are important. **S-LINE** offers an inexpensive alternative to field insulation of small diameter process lines.

### TYPICAL APPLICATIONS

- Steam supply lines
- Condensate return lines
- Gas transport lines
- Liquid transport lines

### JACKET SPECIFICATIONS

- Black PVC
- UV Resistant

### INSULATION SPECIFICATIONS

- Fibrous Glass
- Water Soluble Chlorides less than 30 ppm
- Non-hygroscopic

### PRODUCT FEATURES

- Personnel protection
- Weatherproofing
- Energy conservation

### TEMPERATURE LIMITS

Maximum process temperature 400°F (204°C)

Maximum jacket surface temperature 140°F (60°C) at ambient temperature of 80°F (27°C) with 10 mph (16 km/h) wind

Minimum recommended slope for condensate run-off (steam applications) - 1/4" per foot

### MODEL NUMBER

#### Product Family

S-Preinsulated Single Process Tube

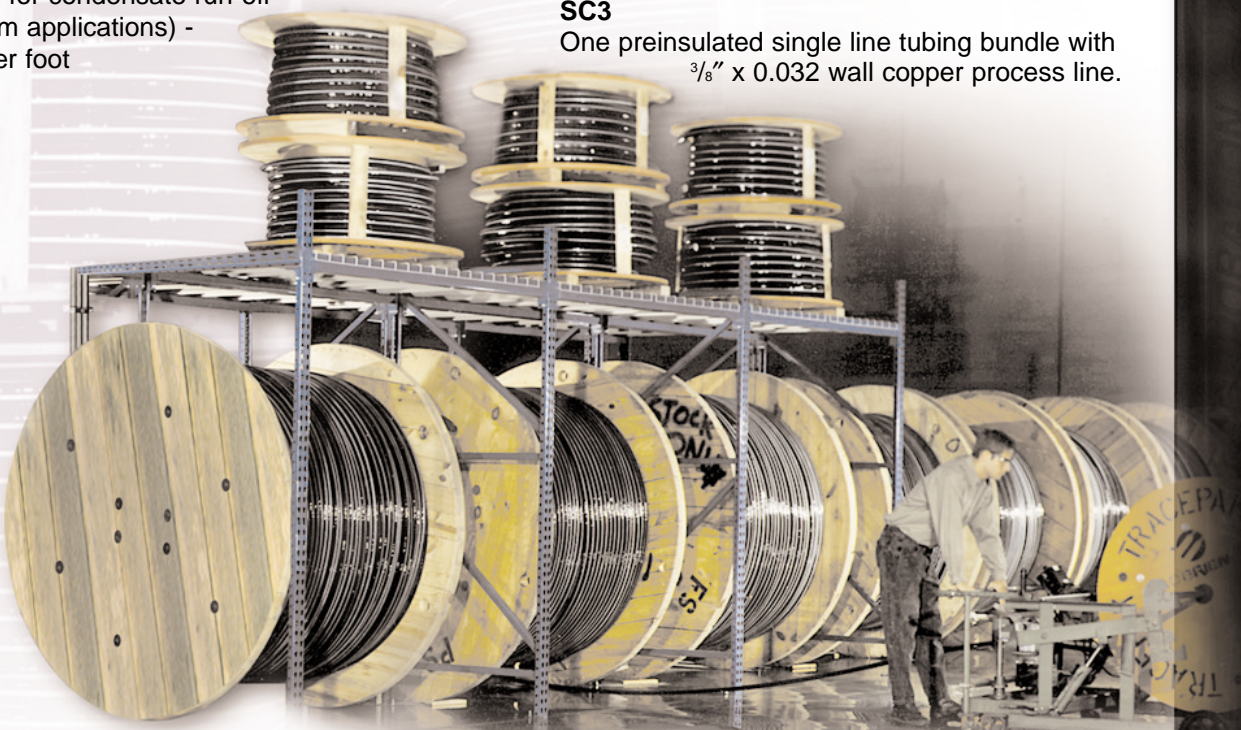
#### Process Tube

- A2** 1/4" x 0.035 wall welded 316SS
- A3** 3/8" x 0.035 wall welded 316SS
- A4** 1/2" x 0.035 wall welded 316SS
- F2** 1/4" x 0.035 wall seamless 316SS
- F3** 3/8" x 0.035 wall seamless 316SS
- F4** 1/2" x 0.035 wall seamless 316SS
- B3** 3/8" x 0.049 wall seamless 316SS
- B4** 1/2" x 0.049 wall seamless 316SS
- J2** 1/4" x 0.030 wall copper
- C3** 3/8" x 0.032 wall copper
- D4** 1/2" x 0.035 wall copper
- M4** 1/2" x 0.049 wall copper
- M6** 3/4" x 0.049 wall copper
- MF6** 6mm OD x 1mm wall seamless 316SS
- MF8** 8mm OD x 1mm wall seamless 316SS
- MF10** 10mm OD x 1mm wall seamless 316SS
- MF12** 12mm OD x 1mm wall copper
- MB10** 10mm OD x 1.5mm wall copper
- MB12** 12mm OD x 1.5mm wall copper
- MD6** 6mm OD x 1mm wall copper
- MD8** 8mm OD x 1mm wall copper
- MD12** 12mm OD x 1mm wall copper

#### Example:

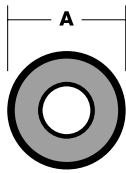
#### SC3

One preinsulated single line tubing bundle with 3/8" x 0.032 wall copper process line.



S-LINE CORPORATION S-LINE MODEL SB3 400F RATED BATCH NO 1174

**INSTALLATION AND DIMENSIONS**



One 1/4" Process Line  
 One 3/8" Process Line  
 One 1/2" Process Line

MIN. BEND RADIUS - IN (CM)	SUPPORT CENTERS-FT. (M)		NOMINAL WT. LB/FT (KG/M)	NOMINAL DIMENSIONS A - IN (CM)
	HORIZ.	VERT.		
8" (20)	6' (1.8)	15' (4.6)	0.2 (0.30)	1.0" (2.5)
10" (25)	6' (1.8)	15' (4.6)	0.3 (0.45)	1.1" (2.8)
12" (30)	6' (1.8)	15' (4.6)	0.4 (0.60)	1.2" (3.0)

**TUBING SPECIFICATIONS**

**Fractional**

O.D.	WALL	MATERIAL AND CONSTRUCTION	ASTM	PSI @ 400°F
1/4"	0.035	welded 316 SS	A-269	3875
3/8"	0.035	welded 316 SS	A-269	2510
1/2"	0.035	welded 316 SS	A-269	1975
1/4"	0.035	seamless 316 SS	A-269, A213-EAW	4845
3/8"	0.035	seamless 316 SS	A-269, A213-EAW	3135
1/2"	0.035	seamless 316 SS	A-269, A213-EAW	2470
3/8"	0.049	seamless 316 SS	A-269, A213-EAW	4560
1/2"	0.049	seamless 316 SS	A-269, A213-EAW	3515
1/4"	0.030	copper	B-68, B-75	700
3/8"	0.032	copper	B-68, B-75	450
1/2"	0.035	copper	B-68, B-75	400
1/2"	0.049	copper	B-68, B-75	550
3/4"	0.049	copper	B-68, B-75	350

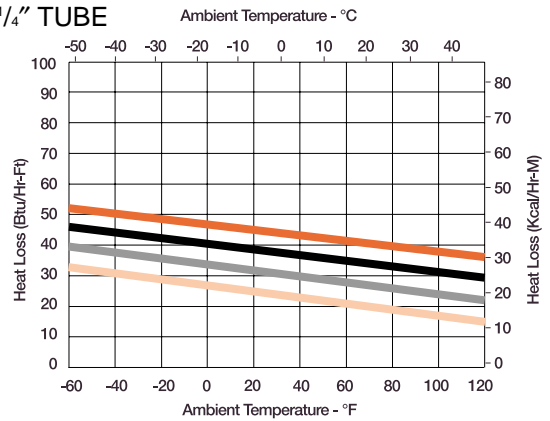
**Metric**

O.D.	WALL	MATERIAL AND CONSTRUCTION	ASTM	BAR @ 204°C
6mm	1.0mm	seamless 316 SS	A-269, A213-EAW	437
8mm	1.0mm	seamless 316 SS	A-269, A213-EAW	313
10mm	1.0mm	seamless 316 SS	A-269, A213-EAW	247
12mm	1.0mm	seamless 316 SS	A-269, A213-EAW	200
10mm	1.5mm	seamless 316 SS	A-269, A213-EAW	390
12mm	1.5mm	seamless 316 SS	A-269, A213-EAW	313
6mm	1.0mm	copper	B-68, B-75	47
8mm	1.0mm	copper	B-68, B-75	30
12mm	1.0mm	copper	B-68, B-75	27

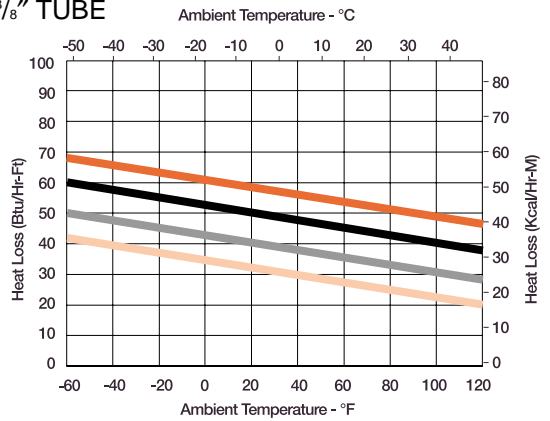
Metric tubing is provided with inspection certificate 3.1.B per EN10204. Tubing meeting NACE MR-01-75-90 is also stocked. Consult factory for the availability of other materials and specifications.

Seamless 316 stainless steel metric size tubing meets or exceeds all requirements of DIN 17458 TEST CLASS1, Material 1.4401/1.4404.

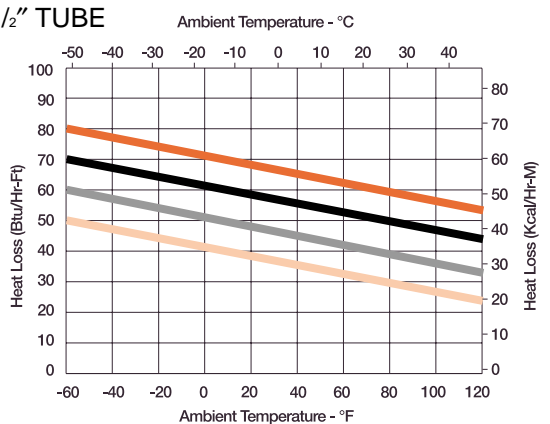
**1/4" TUBE**



**3/8" TUBE**



**1/2" TUBE**



- 200 psig (14.8 BAR) steam 388°F (198°C)
- 125 psig (9.6 BAR) steam 353°F (178°C)
- 50 psig (4.4 BAR) steam 299°F (148°C)
- 15 psig (2.0 BAR) steam 250°F (121°C)

The information presented represents typical performance data for the conditions given. Actual results may vary with the conditions of installation. Heat loss calculated with 25 mph (40 km/h) wind.

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