

# Jacketed Tubing and Insulated Tubing

## TJT Series and TIT Series

### Features

- ⦿ Materials:
  - TJT series: stainless steel or copper tubing, PVC jacket
  - TIT series: stainless steel or copper tubing, fibrous glass insulation, PVC jacket
- ⦿ Sizes: 1/4" to 1/2", 6 mm to 12 mm
- ⦿ Working temperature:
  - TJT series: -31°F to 194°F (-35°C to 90°C)
  - TIT series: -20°F to 400°F (-29°C to 204°C)
- ⦿ Stainless steel tubing bright annealed with mechanically polished external surface
- ⦿ For use with FITOK 6 series tube fittings, 4:1 safety factor for the tubing and connection part of fitting and tubing
- ⦿ Outer jacket marked with brand, tubing material grade, standard, specification, heat number, and jacket material



### Materials

#### Tubing

UNS	Grade	ASTM Standard	FITOK Designator	Composition %					Mechanical Properties			
				C	Cr	Ni	Mo	Cu	Yield Strength MPa	Tensile Strength MPa	Elongation %	Hardness
S31600/ S31603	316/ 316L	A269	SS	≤0.035 <sup>①</sup>	16-18	10-15	2.0-3.0	-	≥205	≥515	≥35	≤80 HRB
C10200	-	B75	CU	-	-	-	-	99.95	≥62	≥205	-	-

① The carbon content of tubing with outside diameter smaller than 1/2" or wall thickness smaller than 0.049" is allowed up to 0.04%.

#### PVC Jacket

Min. Tensile Strength	1530 psig (105 bar)
Min. Elongation	300%
Shore Hardness	80 HA
Max. Working Temperature	194°F (90°C)
Min. Installation Temperature	-31°F (-35°C)
Min. Working Temperature	-31°F (-35°C)
Resistance to Chloride	Yes
Max. Water Absorption	0.06%

## Technical Data

### TJT Series

#### Fractional

Material Code	UNS	Tube O.D. in.	Wall Thickness in.	Max. Working Temperature °F (°C)	Min. Working Temperature °F (°C)	Working Pressure psig	Min. Bend Radius in.	Jacket O.D. mm	Coiled Tubing		Straight-length Tubing ft				
									Standard <sup>①</sup> Coil Length ft	Max. <sup>②</sup> Coil Length ft					
SS	S31600/ S31603	1/4	0.035	194 (90)	-31 (-35)	5100	8.00	0.32	400	2130	20				
		3/8	0.035			3300		0.45		1380					
		1/2	0.035 <sup>③</sup>			2600		0.57	300	1000					
			0.049			3700				900					
CU	C10200	1/4	0.035			194 (90)		-31 (-35)	1600	8.00		0.32	600	2130	20
		3/8	0.035						1000			0.45		1240	
		1/2	0.035 <sup>③</sup>						800			0.57	600	1082	
			0.049						1100					984	

#### Metric

Material Code	UNS	Tube O.D. mm	Wall Thickness mm	Max. Working Temperature °C (°F)	Min. Working Temperature °C (°F)	Working Pressure bar	Min. Bend Radius cm	Jacket O.D. mm	Coiled Tubing		Straight-length Tubing m				
									Standard <sup>①</sup> Coil Length m	Max. <sup>②</sup> Coil Length m					
SS	S31600/ S31603	6	1.0	90 (194)	-35 (-31)	420	20.3	7.9	120	650	6				
		10	1.0			240		11.7		300					
		12	1.0			200		13.7	100	240					
CU	C10200	6	1.0			90 (194)		-35 (-31)	140	20.3		7.9	200	650	6
		10	1.0						80			11.7		380	
		12	1.0 <sup>③</sup>						60			13.7		300	

① Minimum guaranteed length.

② Custom shorter length available subject to confirmation from FITOK.

③ Not recommended for use with 6 series tube fittings in gas service.

**TIT Series**  
**Fractional**

Material Code	UNS	Tube O.D. in.	Wall Thickness in.	Max. Working Temperature °F (°C)	Min. Working Temperature °F (°C)	Working Pressure psig	Min. Bend Radius in.	Nominal Product O.D. in.	Standard <sup>①</sup> Coil Length ft	Max. <sup>②</sup> Coil Length ft
SS	S31600/ S31603	1/4	0.035	400 (204)	-20 (-29)	4900	8.00	1.00	400	1100
		3/8	0.035			3200		1.13		1050
		1/2	0.035 <sup>③</sup>			2500		1.25	300	1000
			0.049			3500				900
CU	C10200	1/4	0.035	400 (204)	-20 (-29)	800	8.00	1.00	600	1000
		3/8	0.035			500		1.13		980
		1/2	0.035 <sup>③</sup>			400		1.25		
			0.049			550				

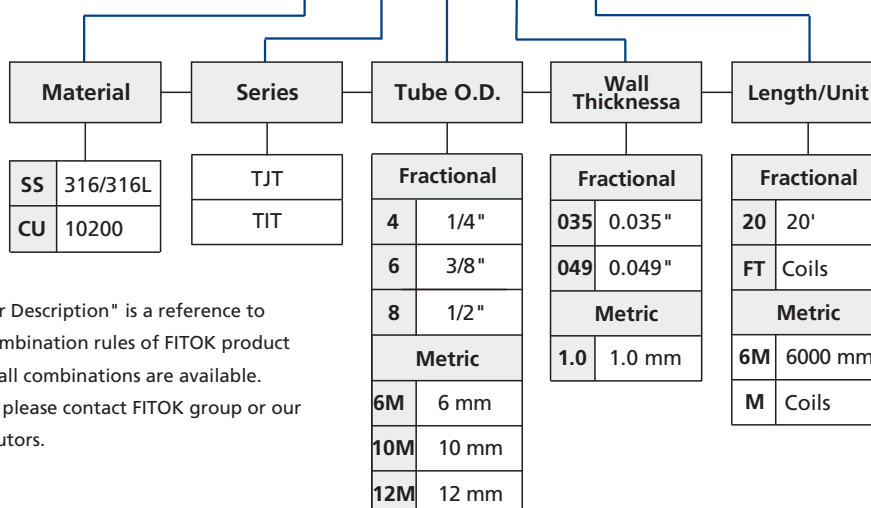
**Metric**

Material Code	UNS	Tube O.D. mm	Wall Thickness mm	Max. Working Temperature °C (°F)	Min. Working Temperature °C (°F)	Working Pressure bar	Min. Bend Radius cm	Nominal Product O.D. mm	Standard <sup>①</sup> Coil Length m	Max. <sup>②</sup> Coil Length m
SS	S31600/ S31603	6	1.0	204 (400)	-29 (-20)	403	20.3	24.9	120	330
		10	1.0			230		28.7		300
		12	1.0			192		30.7	100	240
CU	C10200	6	1.0	204 (400)	-29 (-20)	70	20.3	24.9	200	330
		10	1.0			40		28.7		300
		12	1.0 <sup>③</sup>			30		30.7		300

- ① Minimum guaranteed length.
- ② Custom shorter length available subject to confirmation from FITOK.
- ③ Not recommended for use with 6 series tube fittings in gas service.

**Ordering Number Description**

**SS - TJT - 6 - 035 - 20**



Note: "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available. For any questions, please contact FITOK group or our authorized distributors.

**FIRTECH**

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