

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 ^①	16-18	10-14	2.0-3.0	-	≥205	≥515	≥35	≤80 HRB
C12200	-	B75	CU	-	-	-	-	99.9	≥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. in.	Coiled Tubing		Straight-length Tubing ft				
									Standard ^① Coil Length ft	Max. ^② Coil Length ft					
SS	S31600/ S31603	1/4	0.035	194 (90)	-31 (-35)	5100	8.00	0.39	400	2130	20				
		3/8	0.035			3300		0.53		1300					
		1/2	0.035 ^③			2600		0.62	300	950					
			0.049			3700				700					
CU	C12200	1/4	0.035			194 (90)		-31 (-35)	1600	8.00		0.39	600	2130	20
		3/8	0.035						1000			0.53		1240	
		1/2	0.035 ^③						800			0.62		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 ^① Coil Length m	Max. ^② Coil Length m					
SS	S31600/ S31603	6	1.0	90 (194)	-35 (-31)	420	20.3	9.8	120	650	6				
		10	1.0			240		13.6		300					
		12	1.0			200		15.6		240					
CU	C12200	6	1.0			90 (194)		-35 (-31)	140	20.3		9.8	200	650	6
		10	1.0						80			13.6		380	
		12	1.0 ^③						60			15.6		300	

① Minimum guaranteed length.

② Customized shorter length available subject to confirmation from FITOK.

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

TIT Series
Fractional

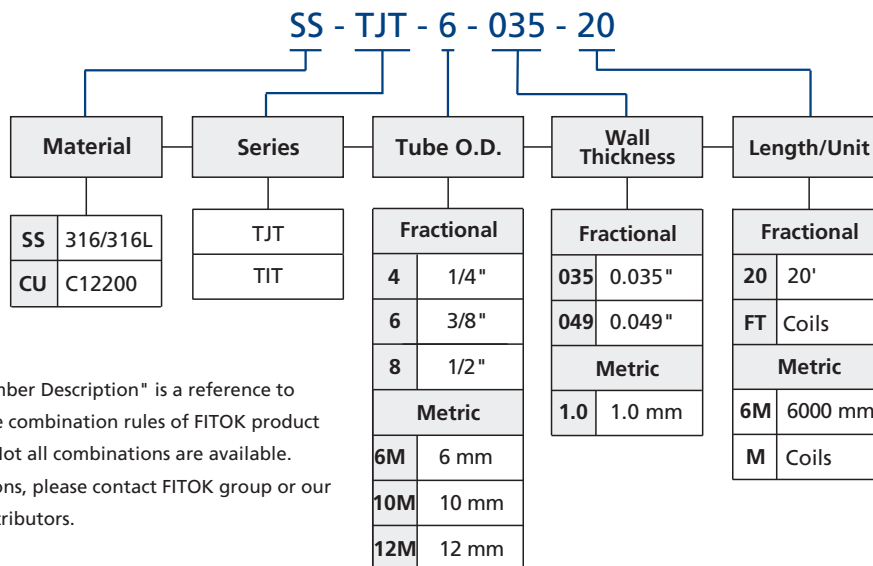
Material Code	UNS	Tube O.D. in.	Wall Thickness in.	Max. Working Temperature °F (°C)	Min. Working Temperature °F (°C)	Working Pressure psig	Min. Bend Radius in.	Nominal Product O.D. in.	Standard ^① Coil Length ft	Max. ^② Coil Length ft
SS	S31600/ S31603	1/4	0.035	400 (204)	-20 (-29)	4900	8.00	1.00	400	1100
		3/8	0.035			3200		1.13		1050
		1/2	0.035 ^③			2500		1.25	300	1000
			0.049			3500				900
CU	C12200	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 ^③			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 ^① Coil Length m	Max. ^② 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	C12200	6	1.0	204 (400)	-29 (-20)	70	20.3	24.9	200	330
		10	1.0			40		28.7		300
		12	1.0 ^③			30		30.7		300

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

Ordering Number Description



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.