

# High purity Fluororesin Tubing

## New-PFA

## SFTN



- Excellent in "Chemical resistance", "Heat resistance" and "Weather resistance", suitable for various industries including **semiconductor industry**.

**Chemical** **Medical** **Food-related** **Medicine** **Cosmetics** **Die temp. control** etc.

- Material is high purity **New-PFA**.

High purity with less elution of impurities such as metal ion, eluted ion and Total Organic Carbon (TOC), compared with PFA.

- Remarkable **Inner surface smoothness**

With its superior inner surface smoothness, it contributes to less particle, reducing chemical liquid stagnation and washing time.

- Best match with Pisco's **Teflon (Fluororesin) Fittings**

Various sizes are available, too, such as 1/4", 3/8", 1/2", 5/32"(4mm), 6mm, 8mm, 10mm and so on to put on other fittings.

- Clean-room packaging is available.

Packed in ISO class 6 equivalent.

Model code	Inch size					mm size							
	SFTN3.18×2.18	SFTN6.35×3.95	SFTN9.53×6.35	SFTN12.7×9.53	SFTN25.4×22.2	SFTN0320	SFTN0430	SFTN0640	SFTN0860	SFTN1080	SFTN1210	SFTN19158	SFTN2522
O.D. x I. D.	1/8" x 2.18mm	1/4" x 3.95mm	3/8" x 1/4"	1/2" x 3/8"	1" x 7/8"	3mm×2mm	4mm×3mm	6mm×4mm	8mm×6mm	10mm×8mm	12mm×10mm	19mm×15.8mm	25mm×22mm
Color	Clear (Transparent)												
Fluid medium	Air, Water (Conditional ※1~3), Chemicals, etc (Conditional ※4)												
Max. operating pressure (MPa)	200psi (1.4)	200psi (1.4)	200psi (1.4)	145psi (1)	72psi (0.5)	200psi (1.4)	145psi (1)	200psi (1.4)	200psi (1.4)	116psi (0.8)	116psi (0.8)	116psi (0.8)	72psi (0.5)
Max. vacuum (kPa)	29.5 inHg (-100)												
Operating temp. range (°C)	-85 ~ 500°F (-65 ~ 260) (No freezing)												
Min. bending radius (JIS) (mm)	8	14	40	47	240	8	14	14	27	50	67	135	240
Min. installation radius (Vice method) (mm)	15	20	60	70	360	15	20	20	40	75	100	200	360

- ※1) Surge pressure must be controlled lower than max. operating pressure when using water or liquid as fluid medium.
- ※2) Tap water in Japan free from foreign substances or contamination can be used. Carry out the evaluation under an actual operating condition for using other kind of water.
- ※3) Be sure to place Insert Ring into the tube edge when the tubing is inserted into Push-in Fittings with water as a fluid medium.
- ※4) Contact us when chemicals are used as a fluid medium.
- ※5) The value of max. operating pressure is measured at 20°C at 65%RH. When Tubes are used in different conditions, consider a safety ratio of the pressure with an enough margin, referring to Burst Pressure Curve.

Model designation (Example)



High purity Fluororesin Tubing ( New PFA)

1. Tubing size (O.D. x I.D.)

Unit : mm

Code	Inch size					mm size							
	3.18×2.18	6.35×3.95	9.53×6.35	12.7×9.53	25.4×22.2	0320	0430	0640	0860	1080	1210	19158	2522
Tubing O.D.	1/8"	1/4"	3/8"	1/2"	1"	ø3	ø4 (5/32")	ø6	ø8 (5/16")	ø10	ø12	ø19	ø25
Tubing I. D.	ø2.18	ø3.95	1/4"	3/8"	7/8"	ø2	ø3	ø4	ø6	ø8	ø10	ø15.8	ø22

※) Tube size ø19×ø15.8 can be used for Pisco's fluororesin fitting size ø19.05×ø15.8 (Connection code : H6).

2. Tubing length

Unit : meter

Code	5	20	50	100
Tubing length	5 (16.4)	20 (65.6)	50 (164)	100 (328)

3. Tubing color

Code	C
Tubing color	Clear

4. Packaging specifications

Code	No code	-C
Packaging spec.	Standard	Clean-room packaging

Model code	Tubing O.D. (mm)	Tubing I.D. (mm)	Standard tubing length (meter)	Weight (g/m)	④ No code: Price (\$ per meter)		④ -C : Price (\$ per meter)	
					5m	20,50,100m	5m	20m
SFTN3.18×2.18 - ② -C ④	1/8"	2.18	- 20 50 100	10	-	3.36	-	4.45
SFTN6.35×3.95 - ② -C ④	1/4"	3.95	- 20 50 100	43	-	15.36	-	20.00
SFTN9.53×6.35 - ② -C ④	3/8"	6.35 (1/4")	5 20 50 100	87	33.00	31.36	42.91	40.82
SFTN12.7×9.53 - ② -C ④	1/2"	9.53 (3/8")	5 20 50 100	121	45.55	43.36	59.27	56.45
SFTN25.4×22.2 - ② -C ④	1"	22.2	5 20 50 -	260	104.18	99.18	-	-
SFTN0320 - ② -C ④	3	2	- 20 50 100	9	-	3.18	-	4.18
SFTN0430 - ② -C ④	4 (5/32")	3	- 20 50 100	12	-	4.18	-	5.45
SFTN0640 - ② -C ④	6	4 (5/32")	- 20 50 100	35	-	10.36	-	13.55
SFTN0860 - ② -C ④	8 (5/16")	6	- 20 50 100	48	-	14.55	-	19.03
SFTN1080 - ② -C ④	10	8 (5/16")	5 20 50 100	62	24.73	20.55	32.18	26.73
SFTN1210 - ② -C ④	12	10	5 20 50 100	75	31.09	25.91	40.45	33.97
SFTN19158 - ② -C ④	19	15.8	5 20 50 -	190	78.82	65.64	-	-
SFTN2522 - ② -C ④	25	22	5 20 50 -	241	110.18	91.82	-	-

: Clean-room packaging is available for colored types. ( Clean-room packaging is not available for ø19×ø15.8, ø25×ø22, ø25.4×ø22.2.)

Compatibility with Fittings and applicable Insert ring

Model code	Tubing O.D.	Fluororesin fitting	Push-in fitting	Minimal fitting	Compression fitting	Applicable insert ring
SFTN3.18×2.18	1/8"	●	●	-	-	-
SFTN6.35×3.95	1/4"	●	●	-	-	WR0640
SFTN9.53×6.35	3/8"	●	●	-	-	-
SFTN12.7×9.53	1/2"	●	●	-	● ※2)	WR1/2-96
SFTN25.4×22.2	1"	●	-	-	-	-
SFTN0320	3mm	●	●	●	-	WR0320
SFTN0430	5/32" (4mm)	●	●	-	-	-
SFTN0640	6mm	●	●	●	●	WR0640
SFTN0860	5/16" (8mm)	●	●	-	●	WR0860
SFTN1080	10mm	●	●	-	-	WR1080
SFTN1210	12mm	●	●	-	-	WR1210
SFTN19158	19mm	● ※1)	-	-	-	-
SFTN2522	25mm	●	-	-	-	-

- ※1) Use this size for Pisco's Fluororesin fitting size ø19.05×ø15.8 (Connection code : H6).
- 2) No applicable fitting size in Brass compression fitting series.
- 3) Push-in fitting includes Push-in fitting series except Fluororesin fitting, Minimal fitting and Compression fitting. Minimal fitting includes Minimal fitting and Minimal Fitting Stainless SUS303 like Corrosivity. Compression fitting includes SUS316 compression fitting and Brass compression fitting.

Burst Pressure Curve (Reference value)

