TES

For coating (flexible, abrasion resistant)

Features

- Bilayer structure of inner (special fluorocarbon resin) and outer (special nylon resin) layers.
- Super flexible and suitable for movable piping for robots.
- Highly smooth and highly chemical resistant inner surface, and highly abrasion resistant outer surface.
- The translucent tubing enables the fluid to be seen.

Structure diagram



Product number table

Millimeter size type (Group 4)

Туре	Outer diameter × Inner diameter (mm)	Max. working pressure (MPa at20°C)	Min. bending radius (mm)	Weight (g/m)	Standard color (color symbol) Translucent CWH	
TES-4-4×2.5	4×2.5	1.8	15	9	0	
TES-4-6×4	6×4	1.8	20	18	0	
TES-4-8×6	8×6	1.5	35	26	0	
TES-4-10×8	10×8	1.1	50	33	0	

Inch size type (Group 1)

Туре	Outer diameter	Max. working	Min. bending radius	Weight	Standard color (color symbol)	
	(mm)	(MPa at 20°C)	(mm)	(g/m)	CWH	
TES-1-1/4	06.35×4.57		25	18	0	
TES-1-3/8	9.53×6.99	1.4	40	37	0	
TES-1-1/2	12.70×9.56		55	61	0	

* Made to Order

Standard length

20M, 100M

Product number example



Applicable fittings QuickSeal series Insertion type (stainless) QuickSeal series Insertion type (brass)



(*1) Combinatory use of TES tubing and Chemifit series mixes general and clean type performances. When using them together in a clean environment, be aware of how this could lower the cleanliness level.

- Standard length (20M, 100M)



Operating fluid, working temperature range

Operating fluid	Working temperature range		
Air	-40°C~+100°C		
Water	0°C~+70°C		
Water-based paint (*)	0°C~+40°C		
(*) Water-based paint, or aliphatic or aromatic carbon hydride solven			

Contact us for other operating fluids.

Negative pressure performance

-101.294kPa

Relation between the working t and the maximum working pres and the maxim

The maximum working pressure varies with the working temperature (environmental temperature). For use at an abnormal temperature, always check the maximum working pressure change in the graph below and keep the pressure within the indicated range.

Caution: Using tubes at a pressure outside the range may cause accidents or damage, for which Nitta is not liable.



Handling instructions

- Caution: When water is used as the operating fluid, the tubing material might degrade depending on the additive. Contact us for details.
- Caution: When water is used as the operating fluid, keep the surge pressure below the maximum working pressure. Also, do not allow the water to freeze.
- Ger See page 10 for common instructions for tubing products.

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