

High-Temperature,
Chemically Inert, Modified
Teflon Tubing

Product Facts

- Shrink ratio: 1.8:1 (TFE)
3.2:1 (TFE-R)
- High flame-resistance
- Excellent chemical resistance

TFE and TFE-R



Applications

Designed to provide insulation and mechanical protection in severe chemical and thermal environments. Used to cover hydraulic hose and couplings to prevent contamination and corrosion. The high mechanical strength and extremely low coefficient of friction make it ideal for reducing damage to bearing shafts and similar applications.

Installation

Minimum shrink temperature: 330°C [625°F]
Minimum full recovery temperature: 340°C [644°F]

Operating Temperature Range

-67°C to 250°C
[-88.6°F to 482°F]

Specifications/Approvals

Series	Military	Raychem
TFE, TFE-R	AMS-DTL-23053/12* Def. Stan. 59-97 Type 5A (TFE) Def. Stan. 59-97 Type 5B (TFE-R)	RW-2055 (TFE) RW-2054 (TFE-R)

*Formerly MIL-I-23053/12 and MIL-DTL-23053/12.

**Product Dimensions
(millimeters)**

TFE and TFE-R (Continued)

Size		Inside Diameter				Recovered Wall Thickness** After Heating (Nominal)	
		Minimum Expanded as Supplied		Maximum Recovered After Heating		TFE	TFE-R
TFE	TFE-R	TFE	TFE-R	TFE	TFE-R	TFE	TFE-R
30	5/64	0.8	2.0	0.38	0.6	0.23	0.23
28	1/8	0.9	3.2	0.46	1.0	0.23	0.25
26	1/4	1.1	6.4	0.56	1.6	0.25	0.30
24	3/8	1.2	9.5	0.68	2.4	0.25	0.30
22	1/2	1.4	12.7	0.81	3.7	0.30	0.38
20	5/8	1.5	15.9	0.99	4.5	0.30	0.38
18	3/4	1.9	19.0	1.24	5.7	0.30	0.38
16	1	2.3	25.4	1.55	7.1	0.30	0.38
14	1 1/4	3.0	32.0	1.83	8.8	0.30	0.38
12		3.8		2.26		0.30	
10		4.8		2.84		0.30	
8		6.1		3.58	—	0.38	—
6	—	7.6	—	4.52	—	0.38	—
4	—	9.4	—	5.69	—	0.38	—
2	—	10.9	—	7.06	—	0.38	—
0	—	11.9	—	8.81	—	0.38	—

**Wall thickness will be less if tubing recovery is restricted during shrinkage.

Ordering Information

Color	Standard	Clear (-X)
Size selection	Always order the largest size that will shrink snugly over the component to be covered. Special order sizes are available upon request.	
Standard packaging	In 1.2-meter [4-foot] lengths.	
Ordering description***	Specify product name, size and color (for example, TFE 22-X).	

***Europe only. For supply to MIL, Def Stan and BS add -MS, -DS or -BS to ordering description.