

M23053/13 Viton®

2:1 SHRINK RATIO, FLEXIBLE, HIGH TEMPERATURE, CHEMICAL AND ABRASION RESISTANT, FLUROELASTOMER TUBING

Applications

M23053/13 is a heat shrinkable, flexible, fluoroelastomer sleeving that is used in high temperature applications or where exposure to high temperature and aggressive solvents is expected. It is widely used in hydraulic equipment, aircraft manufacture and ship building applications.

Features

- ★ Shrink ratio: 50% or more in the radial direction, 20% or less in the axial direction
- ★ In stock for immediate shipment
- ★ Continuous operating temperature: - 40°C (-40°F) to 200°C (392°F)
- ★ Excellent abrasion protection for military industries
- ★ High resistance to chemicals and oils

Standard

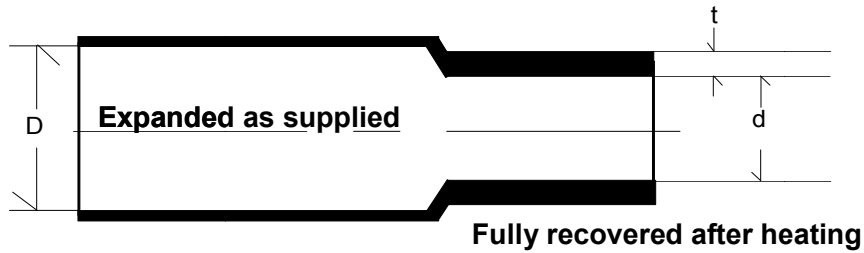
- ★ AMS-DTL-23053/13 (Formerly MIL-DTL-23053/13)
- ★ RoHS Compliant

Specification Values

Property		Test Method	Value	
Physical	Unaged	Tensile strength	Min. 1,200 psi	
		Elongation	Min. 250%	
		Tensile stress @ 200% elongation	Max. 2,000 psi	
	Aged	Tensile strength	ASTM-D412	Min. 1,200 psi
		Elongation	250°C/168 hrs	Min. 200%
	Fluid Resistance	Tensile strength	ASTM-D412	Min. 1,200 psi
		Elongation	250°C/168 hrs	Min. 250%
	Heat shock	300°C/4 hrs	No cracking, flowing or dripping	
Cold bend	- 40°C/4 hrs	No cracking		
Voltage withstand	2kV/1min	Pass		
Electrical	Dielectric strength	ASTM-D2671	Min. 200Volts/mil	
	Volume resistivity	ASTM-D876	Min. 10 ⁹ Ω - cm	
Chemical	Copper corrosion	175°C/16 hrs	No pitting or corrosion	
	Fungus resistance	ASTM G21	No growth	
	Water absorption	ASTM-D570	Max 0.5%	
	Flammability	ASTM-D2671	Pass	

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Product Dimensions

Minimum Shrink Temperature: 100°C

Size	Expanded		Recovered			
	Internal Diameter (Minimum) (D)		Internal Diameter (Maximum) (d)		Minimum Total Wall Thickness (t)	
	In.	mm	In.	mm	In.	mm
Inch Size						
1/8"	0.125	3.4	0.063	1.6	0.048	0.65
3/16"	0.187	4.7	0.094	2.4	0.028	0.72
1/4"	0.250	6.4	0.125	3.2	0.028	0.72
3/8"	0.375	9.5	0.187	4.7	0.028	0.72
1/2"	0.500	12.7	0.250	6.4	0.028	0.72
5/8"	0.625	15.9	0.312	7.9	0.034	0.90
3/4"	0.750	19.1	0.375	9.5	0.034	0.90
7/8"	0.875	22.2	0.437	11.1	0.038	0.92
1"	1.000	25.4	0.500	12.7	0.038	0.92
1 1/4"	1.125	31.8	0.625	15.9	0.040	1.02
1 1/2"	1.500	38.1	0.750	19.1	0.040	1.02

Standard Color: Black

Optional Color(s): Available by special order

Storage Condition: Keep cool. Don't keep package over 8 hours at temperature exceeding 40°C (104°F).

* Test Fluids:	Hydraulic Fluid petroleum base	MIL-H-5606
	JP-8	MIL-T-5624
	Lubricating Oil	MIL-L-7808
	Lubricating Oil	MIL-L-23699
	5 percent NaCl	A-A-694
	Deicing Fluid	MIL-A-8243