

Multipurpose Abrasion Resistant Tubing

Flexibility at High Pressure & Fuel and Oil Resistance

Multi-Purpose, Abrasion Resistant Tubing

Specially formulated Versilon[™] C-544-A IB tubing is ideal for use in some of the most physically demanding applications. When exposed to abrasive conditions, the excellent wear properties of Versilon™ C-544-A IB tubing frequently outperforms traditional rubber, plastic and metal materials. More flexible than many other reinforced tubing, Versilon[™] C-544-A IB can often be used in applications requiring a tight bend radius where other tubes have collapsed and failed. Versilon™ C-544-A IB tubing also retains much of its unique flexibility even at temperatures as low as -73°C (-100°F). Versilon™ C-544-A IB tubing meets FDA 21 CFR, 177.1680 and 177.2600 criteria for food contact applications.

Excellent Stability

While many rubber and plastic materials exhibit resistance to certain solvents, oils, and chemicals, Versilon™ C-544-A IB tubing will resist a much wider range of substances. Plasticizer extraction leading to embrittlement is one of the most frequent causes of failure when flexible tubing is exposed to harsh chemicals. Versilon™ C-544-A IB tubing is plasticizer-free and remains flexible even when cycled through temperature extremes.

Large Bore Stock Sizes Ideal for Bulk Transfer

Reinforced for elevated pressure, Versilon[™] C-544-A IB tubing can easily handle applications requiring large volume transfer of high viscosity fluids, pastes, and slurries. It is conveniently available from inventory in a wide variety of common sizes up to 2" inner diameter.



eatures and Benefits

 exceptional abrasion and tear resistance

 tough braid reinforcement for elevated working pressures excellent resistance to oils, greases, and fuels • retains flexibility in sub-zero

environments

Typical Applications

 Food and cosmetic processing abrasive and viscous slurry transfer

 Lubrication and degreaser dispensing

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Regulatory Compliance

- Meets FDA criteria for food contact
- FDA 21 CFR, 177.1680 and 177.2600
- Meets NSF 61 criteria for potable water contact*

* NSF has length restrictions, determined by tubing size, for NSF 61 applications.

Versilon[™] C-544-A IB Standard Sizes

- Pellet and powder transfer
- Pneumatic sensory devices
- Instrumentation control lines
- Coolant recovery systems

Part Number	ID	OD	Wall	Min. Bend Radius	Max. Working Pressure* 22°C (73°F)	Max. Working Pressure* 82°C (180°F)	Vacuum Rating at 22°C (73°F)	Vacuum Rating at 82°C (180°F)
VS3,18CA9,53IB	3,18 mm (1/8")	9,53 mm (3/8")	3,18 mm (1/8")	6,4 mm	29 bar	15,1 bar	760 mmHg	760 mmHg
VS4,76CA11,11IB	4,76 mm (3/16")	11,11 mm (7/16")	3,18 mm (1/8")	12,7 mm	16,5 bar	8,6 bar	760 mmHg	760 mmHg
VS6,35CA12,7IB	6,35 mm (1/4")	12,7 mm (1/2")	3,18 mm (1/8")	19,1 mm	18,9 bar	10,3 bar	760 mmHg	760 mmHg
VS9,53CA15,88IB	9,53 mm (3/8")	15,88 mm (5/8")	3,18 mm (1/8")	38,1 mm	14,1 bar	7,9 bar	760 mmHg	760 mmHg
VS12,7CA19,05IB	12,7 mm (1/2")	19,05 mm (3/4")	3,18 mm (1/8")	50,8 mm	13,4 bar	7,5 bar	760 mmHg	760 mmHg
VS15,88CA22,23IB	15,88 mm (5/8")	22,23 mm (7/8")	3,18 mm (1/8")	76,2 mm	12 bar	7,2 bar	760 mmHg	635 mmHg
VS19,05CA26,99IB	19,05 mm (3/4")	26,99 mm (1-1/16")	3,97 mm (5/32")	88,9 mm	10,3 bar	6,8 bar	760 mmHg	635 mmHg
VS25,4CA34,93IB	25,4 mm (1")	34,93 (1-3/8")	4,76 mm (3/16")	120,7 mm	8,2 bar	5,5 bar	760 mmHg	381 mmHg
VS31,75CA44,45IB	31,75 mm (1-1/4")	44,45 mm (1-3/4")	6,35 mm (1/4")	152,4 mm	6,5 bar	4,4 bar	760 mmHg	508 mmHg
VS38,1CA50,8IB	38,1 mm (1-1/2")	50,8 mm (2")	6,35 mm (1/4")	190,5 mm	5,5 bar	3,4 bar	760 mmHg	381 mmHg
VS50,8CA63,5IB	50,8 mm (2")	63,5 mm (2-1/2")	6,35 mm (1/4")	330,2 mm	4,8 bar	2,7 bar	381 mmHg	254 mmHg

*Working pressures are calculated at a 1:4 ratio relative to burst pressure using ASTM D1599

The values listed for working and burst pressures are derived from tests conducted under controlled laboratory conditions. Many factors will reduce the tubing's ability to withstand pressures, including temperature, chemical attack, stress, pulsation and the attachment to fittings. It is imperative that the user conduct tests simulating the conditions of the application prior to specifying the tubing for use.

Typical Physical Properties of Versilon[™] C-544-A IB Tubing

ASTM Method	Value of Rating	
D2240	85° Shore A, 15s	
-	clear	
D792	1.12	
D412	34,5 MPa (5.000 psi)	
D412	400,00%	
D1004	61,3 kN/m (350 lb-f/in)	
D395 Method B	19,00%	
D149	21,6 kV/mm (550 v/mil)	
D412	5,5 MPa (800 psi) 8,3 MPa (1.200 psi)	
-	82° C (180°F)	
D412	45,00%	
D746	-73°C (-100°F)	
D570	1,80%	
	Method D2240 - D792 D412 D412 D412 D1004 D395 Method B D149 D412 - D412 - D412 D412	

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