Put-Ups



#### Exceptional Thermal Insulation

- Easy To Install
- Excellent Chemical Resistance
- Non-Combustible and Fire Resistant
- Great Appearance

Nominal Size	Part #	Expansion		Wall	Bulk	Shop	Available	Lbs/
		Min	Max	Thickness	Spool	Spool	Colors	100′
BASALT F	ILAMENT SLEEV	E						
1/4″	VTN0.25BA	3/16″	3/8″	0.025″	200′	50′	Basalt (BA)	1.63
1/2″	VTN0.50BA	1/2″	5/8″	0.038″	200′	50′	Basalt (BA)	4.48
3/4″	VTN0.75BA	3/4″	1″	0.025″	200′	50′	Basalt (BA)	4.74
1″	VTN1.00BA	3/4″	1 1/8″	0.025″	100′	25′	Basalt (BA)	4.60
1 1/2″	VTN1.50BA	1 1/2″	2 1/2″	0.050″	100′	25′	Basalt (BA)	14.60
2″	VTN2.00BA	1 3/8″	2 5/8″	0.035″	100′	25′	Basalt (BA)	12.80
BASALT 1	EXTURIZED SLEI	EVE						
3″	VTN3.00BA	2″	3 1/4″	0.055″	50′	25′	Basalt (BA)	13.40
4″	VTN4.00BA	3 1/4″	4 1/2"	0.055″	50′	25′	Basalt (BA)	14.70



Material Basalt Fiber

Grade VTN

Wall Thickness .025" - .055"

Drawing Number TF001INS-WD



### Braided Basalt Sleeve Withstands Heat Up To 1,200°F

VOLCANO<sup>®</sup> SLEEVE (VTN) is made from continuous filament basalt fiber and is engineered for protection from temperatures 1,200°F. The Basalt fiber is a 100% inorganic continuous filament mineral with an excellent high temperature and shock resistance.

Basalt fiber is similar to carbon fiber and fiberglass, but basalt has better mechanical properties than fiberglass and is lower in cost than carbon fiber. The volcanic rock sleeve is easy to install and will provide years of protection and good looks.

Volcano<sup>®</sup> Sleeve can be used both for electrotechnical applications & fire protection in the production of cars, airplanes, ships and household appliances.

The durable, braided, and lightweight design is very flexible, which enables ease of assembly over tubes and pipes with bends, flanges, and a wide range of geometries.

### Colors Available:



EXTREME TEMPERATURE Technical Data Sheet

# ABRASION

Abrasion Test Machine	Taber 5150		
Abrasion Test Wheel	Calibrase H-18		
Abrasion Test Load	500g		
Room Temperature	75.29°F		
Humidity	31%		
Sample 1 - FILAMENT / Abra	asion Resistance - HIGH		
Worn, Braid Flattened	50 Test Cycles		
Braid Strands Seperating	750 Test Cycles		
Several Holes Worn -Destroyed	950 Test Cycles		
Pre-Test Weight	17.41g		
Post-Test Weight	16.01g		
Test End Loss Of Mass Point Of Destruction	1.4g / 8.04% Loss		
Sample 2 - TEXTURIZED / Ab	rasion Resistance - LOW		
Braid Strands Pulled & Loosened	50 Test Cycles		
Braid Strands Pulled & Loosened	100 Test Cycles		
Material Destroyed	200 Test Cycles		
Pre-Test Weight	16.87g		
Post-Test Weight	11.37g		
Test End Loss Of Mass Point Of Destruction	5.5g / 32.60% Loss		

# **O** PHYSICAL PROPERTIES

Monofilament Diameter_ ASTM D-204	NA
Flammability Rating	_Non Flammable
Recommended Cutting_	Scissor
Colors	1
Wall Thickness	.025″055″



Rating\_

Non Flammable

Intermitten Exposure	2100°	
1,800°F (982°C)	1800°	
	1500°	
Maximum Continuous — <i>Mil-I-23053</i>	1200º	
1.200°F (649°C)	900°	
_, (010 0)	600°	
	300°	

www.techflex.com

## **CHEMICAL** RESISTANCE

1=No Effect 4=More Affected 2=Little Effect 5=Severely Affected 3=Affected

Aromatic Solvents	1
Aliphatic Solvents	1
Chlorinated Solvents	1
Weak Bases	1
Salts	1
Strong Bases	1
Salt Water 0-S-1926	1
Hydraulic Fluid MIL-H-5606	1
Lube Oil <i>MIL-L-7808</i>	1
De-Icing Fluid MIL-A-8243	1
Strong Acids	2
Strong Oxidants	2
Esters/Ketones	1
UV Light	2
Petroleum	1
Fungus ASTM G-21	1
Halogen Free	Yes
RoHS	Yes

© 2021 Techflex<sup>®</sup> - Any unauthorized reproduction, in whole or part, in any medium whatsoever, without the express written permission of Techflex<sup>®</sup> is strictly forbidden. Techflex<sup>®</sup> product names and logos are registered trademarks of Techflex<sup>®</sup>, unless otherwise attributed. The contents and illustrations contained herein are believed to be reliable. Techflex<sup>®</sup> makes no warranties as to their accuracy or completeness and disclaims any liability in connection with their use. Techflex's<sup>®</sup> only obligations are those in standard terms of sale for these products and Techflex<sup>®</sup> will not be liable for any consequential or other damages arising due to misuse of these products or typographical errors or omissions. Users should make their own evaluation to determine the suitability of these products for their unique and specific applications. 08-26