VOLCANO® SLEEVE

CONTINUOUS FILAMENT BASALT FIBER · PROTECTS UP TO 1,200°F
NON-COMBUSTIBLE & FIRE RESISTANT

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

SIZING CHART

Nominal Size	Part #	Min Expansion	Max Expansion	Wall Thickness	*Put-Ups		Available Colors	Lbs/ 100’
					M	L		
BASALT FILAMENT SLEEVE								
¼”	VTN0.25BA	3⁄16”	⅜”	.025”	50’	200’	1	1.63
½”	VTN0.50BA	½”	⅝”	.038”	50’	200’	1	4.48
¾”	VTN0.75BA	¾”	1”	.025”	50’	200’	1	4.74
1”	VTN1.00BA	¾”	1⅛”	.025”	25’	100’	1	4.60
1½”	VTN1.50BA	1½”	2½”	.050”	25’	100’	1	14.60
2”	VTN2.00BA	1⅜”	2⅝”	.035”	25’	100’	1	12.80
BASALT TEXTURIZED SLEEVE								
3”	VTN3.00BA	2”	3¼”	.055”	25’	50’	1	13.40
4”	VTN4.00BA	3¼”	4½”	.055”	25’	50’	1	14.70

*Put-Ups: ***“M”*** = Shop Spool and ***“L”*** = Bulk Spool



FEATURES

Material	**Basalt Fiber**
Grade	**VTN**
Wall Thickness	**.025”-.055”**
Drawing Number	**TF001VTN-WD**
Cutting	**Scissors**

COLORS



Basalt (BT)

CERTIFICATIONS

RoHS Compliant

TECHFLEX
Braided Sleeving Products

HIGH TEMPERATURE
Technical Data Sheet

ABRASION

Abrasion Test Machine	Taber 5150
Abrasion Test Wheel	Calibrase H-18
Abrasion Test Load	500g
Room Temperature	75°F
Humidity	31%
SAMPLE 1 - FILAMENT	
Abrasion Resistance	**HIGH**
Worn, Braid Flattened	50 Test Cycles
Material Destroyed - Several Holes Worn	950 Test Cycles
Pre-Test Weight	17.41 g
Post-Test Weight	16.01 g
Test End Loss Of Mass Point Of Destruction	1.4 g / 8%
SAMPLE 2 - TEXTURIZED	
Abrasion Resistance	LOW
Braid Strands Pulled & Loosened	50 Test Cycles
Braid Strands Pulled & Loosened	100 Test Cycles
Material Destroyed	200 Test Cycles
Pre-Test Weight	16.87 g
Post-Test Weight	11.37 g
Test End Loss Of Mass Point Of Destruction	5.5 g / 32.6%

PHYSICAL PROPERTIES

Monofilament Diameter *(ASTM D-204)*	NA
Flammability Rating	Non Flammable
Recommended Cutting	Scissors
Colors	1
Wall Thickness	.025”-.055”

FLAMMABILITY

Rating	Non Flammable

OPERATING TEMPERATURES

Intermitten Exposure *(ASTM D-2117)*	1,800°F / 982°C
Maximum Continuous	1,200°F / 649°C
Minimum Continuous	°F / °C

CHEMICAL RESISTANCE

1=No Effect 2=Little Effect 3=Affected 4=More Affected 5=Severely 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 *(MIL-L-7808)*	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
SVHC	NA

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