

# BASALTJACKET



## Knitted sleeving from basalt yarn

This high temperature knitted sleeve is constructed of 100% basalt yarn, which provides excellent thermal protection and will withstand continuous exposure to temperatures of up to +750°C. When installed on vehicle exhaust tubes and pipes, the sleeve facilitates retention of high temperatures as gases flow through the exhaust system.

The durable, knitted design is very flexible, which enables ease of assembly over tubes and pipes with bends and flanges. The dense single wall construction provides optimal coverage. The heavy duty construction, which is more than 15% denser than market average and minimizes snagging and tearing of the sleeve during assembly. The sleeves are available in precut lengths or continuous lengths of up to 150 meter (depending on size), which permits the user to cut the sleeves to exact lengths to adapt to specific requirements. Typical applications include automotive, heavy-duty truck, and bus exhaust tubes and pipes and high temperature industrial applications to protect hoses and cables.



### Material & Construction:

**Construction:** Knitted basalt yarn.

**Chemical resistance:** Resists most acids and alkalis and is unaffected by most bleaches and solvents

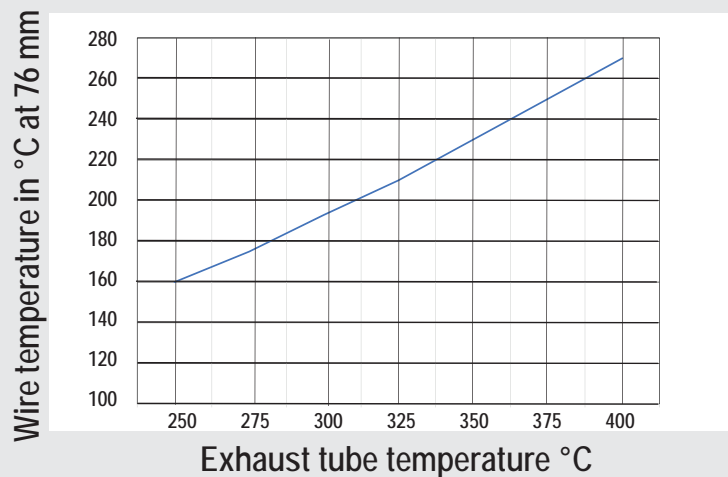
**Operating temperature:** -260 °C till +750 °C continuous, +980°C short term.

**Colour:** Gold.

Basaltjacket			Approx. diametre		Standard carton		Small carton		Bulk carton		Weight
Size (mm)	Size (Inch)	Type	Inside (mm)	Outside (mm)	Metre	Article No.	Metre	Article No.	Metre	Article No.	(Kg/m)
						Gold		Gold		Gold	
25	1"	BJ-16	25	30	152	347.625.6	30	347.625.3	-	-	-
38	1.1/2"	BJ-24	38	43	91	347.638.6	30	347.638.3	-	-	-
51	2"	BJ-32	51	56	76	347.651.6	30	347.651.3	-	-	-
64	2.1/2"	BJ-40	64	69	68	347.664.6	30	347.664.3	305	347.664.8	-
76	3"	BJ-48	76	81	61	347.676.6	30	347.676.3	259	347.676.8	-
89	3.1/2"	BJ-56	89	94	53	347.689.6	30	347.689.3	228	347.689.8	-
102	4"	BJ-64	102	107	50	347.695.6	30	347.695.3	198	347.695.8	-
127	5"	BJ-80	127	132	38	347.698.6	30	347.698.3	152	347.698.8	-

### Wire heat protection test

Wire temperature at 76 mm from a 4" exhaust tube



The information contained herein is believed to be reliable. Users should make their own evaluations on products and materials to determine the suitability for the application.

# BASALT PRODUCTS ENGINEERING DATA

## Basaltjacket protection sleeve

Basaltjacket is made of basalt yarns which provides excellent thermal protection and withstands continuous exposure to temperatures of up to +750°C.

The durable, knitted, and lightweight design is very flexible, which enables ease of assembly over tubes and pipes with bends, flanges, and a wide range of geometries. The dense single wall construction provides optimal coverage and minimizes snagging or tearing during assembly.

## Basaltjacket performance testing

Test	Result	Test specification
<b>Thermal testing</b>		
700°C soak test	passed	internal
Wire heat protection test (wire 76 mm from surface), see graph at previous page	passed	internal
Flammability and burn tests	no ignition passed passed passed no ignition	SAE J369 FMVSS 302 CMVSS ISO 33795 ASTM D5132
<b>Salt spray testing</b>		
ASTM G85-11 Annex 2, cyclic acidified salt spray	passed	ASTM G85-11

## Technical characteristics:

Thermal		Physical / mechanical	
Maximum application temperature	+982 °C	Density	2,75 g/cm <sup>3</sup>
Sustained operating temperature	+750 °C	Filament diameter	9-23 microns
Minimum operating temperature	-260 °C	Tensile strength	4840 M Pa
Thermal conductivity	0,031-0,038 W/m K	Compression	550.000 psi
Virtification conductivity	+1050 °C	Elastic modulus	89 G Pa
Glow loss	1,91 %	Linear expansion coefficient	5,5 x10 /K
Thermal expansion coefficient	8,0 ppm/ °C	Elongation at break	3,15 %
<b>Acoustics</b>		Absorption of humidity (65 % RAH)	<0,1 %
Sound absorption coefficient	0,9-0,99 %	Stability at tension (20 °C)	100 %
<b>Electrical</b>		Stability at tension (200 °C)	95 %
Specific volume resistance	1*10 <sup>12</sup> ohm.m	Stability at tension (400 °C)	82 %
Loss angle tangent frequency	0,005 (1 MHz)	<b>Chemical resistance</b>	
Relative dielectric permeability	2,2 (1 MHz)	Percentage weight loss after 3 hrs boiling in:	
		H2O	0,2 %
		2n NaOH (Sodium Hydroxide)	5,0 %
		2n HCl (Hydrochloric acid)	2,2 %

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