



THERMAL MANAGEMENT

ThermoJacket® E

Product Highlights

- Operating temperature up to +650°C (+1202°F)
- Peak temperature +750°C (+1382°F)
- Excellent thermal insulation
- Extremely flexible
- Conforms to component
- Low profile

Typical Applications

- Exhaust Gas Recirculation (EGR) Tubes
- Exhaust System Components



Our manufacturing sites are certified ISO 9001, ISO/TS 16949, or AS/EN 9100, and ISO 14001

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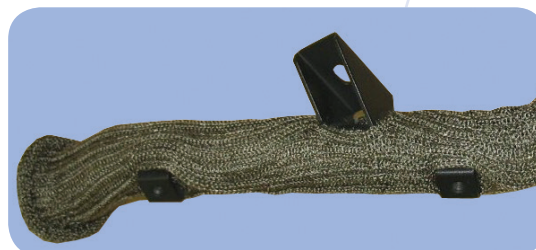


ThermoJacket® E is a knitted sleeve developed for insulation of high temperature exhaust systems. Designed with basalt yarns, ThermoJacket E can withstand temperatures up to +750°C (+1382°F).

The high degree of insulation provided by ThermoJacket E enables exhaust gas to maintain temperature as it moves through the exhaust system. Maintenance of exhaust gas temperature is important in order to ensure complete conversion of exhaust gas and particulates. Complete conversion is necessary to meet the increasingly strict emission regulations set in place by government mandate.

ThermoJacket E's innovative design can expand up to 1.5 times its own diameter and accommodates flanges and bends typically seen on exhaust system components. Optional attachment methods are also available. The new construction can also accommodate vent holes to direct heat away.

An alternative construction, ThermoJacket I, is available for improved stone impingement resistance. Please contact us to receive prototypes and additional information regarding this version.



The latest developments feature a version with customized built-in bracket spaces to ease installation and keep integrity of the sleeving structure.

BentleyHarris®
Protection Products

**FEDERAL
MOGUL**
Systems Protection

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Performance Data – ThermoJacket® E

Property	Test Method	Result
PHYSICAL		
Thermal Endurance	BH 100-521	Pass - No degradation
Cold/Wet Endurance	BH 100-522	Pass - No degradation
Thermal Containment	BH 100-509	See table below
Flammability	SAE J369 D45 133	No ignition Type A - No ignition
Flammability with Oil Contamination	BH 100-524 (ref. SAE J369)	Self-extinguishing
Vibration	ASTM D4728	Pass - No degradation
CHEMICAL		
Fluid Resistance 50/50 Antifreeze/Distilled Water 5% NaCl Transmission Fluid Diesel Fluid LSRD-4 ASTM Reference Fuel C SAE 5W30 Brake Fluid SAE RM-66 Power Steering Fluid Windshield Washer Fluid	BH100-003F	No degradation or loss of flexibility
Salt Spray	ASTM G85	Pass
RESISTANCE TO WASHING		
Power Washing Test	Internal test method	No degradation

All numeric performance data shows average or typical values.

Thermal Containment Test per BH100-509 on ThermoJacket E 3.5" (89mm)

Exhaust Pipe Parameters		Results	
Inlet Gas	828°C	Thermal Containment	251°C
Inlet Pipe Surface	534°C	Temperature at 20mm from sleeve (ambient)	121°C
Pipe	552°C	Temperature at 30mm from sleeve (ambient)	100°C
Sleeve	301°C	Temperature at 100mm from sleeve (ambient)	81°C

Product Specifications

Commercial Part Number	Recommended Application Range mm (in)		Maximum Weight g/m (lb/ft)
	Min Ø	Max Ø	
ThermoJacket E 51-1	32 (1-1/4")	76 (3")	Consult factory*
ThermoJacket E 89-1	64 (2-1/2")	89 (3-1/2")	
ThermoJacket E 127-1	76 (3")	114 (4-1/2")	
ThermoJacket E 140-1	89 (3-1/2")	152 (6")	

* ThermoJacket E is custom designed to fit the contours of specific pipe applications. Consult the factory to determine the maximum weight for your specific design.

Part Numbering System

Example	Product Name	Size	Color	Quantity
	ThermoJacket E	89	1 (brown)	100 pieces



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