



THERMAL MANAGEMENT

ThermFlex® 1224

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 9000, QS 9000 or ISO/TS 16949 and ISO 14001

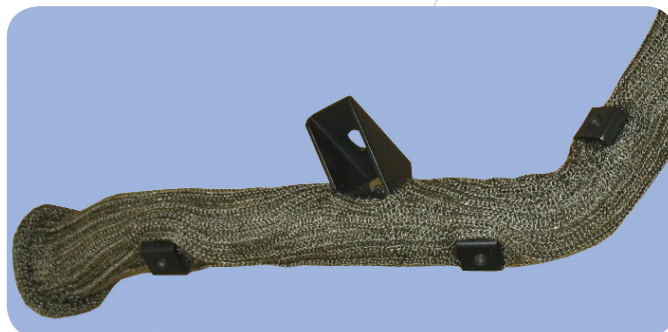
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ThermFlex® 1224 is a knitted sleeve developed for insulation of high temperature exhaust systems. Designed with basalt yarns, ThermFlex 1224 can withstand temperatures up to 750°C.

The high degree of insulation provided by ThermFlex 1224 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.

ThermFlex 1224'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.



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

Performance Data – ThermFlex® 1224

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 ThermFlex 1224 3.5" (89mm)

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

Availability

ThermFlex 1224 is delivered in a carton in pieces. The number of pieces per carton depends on the length of the application and varies from 25 to 200 parts.

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