

## 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



**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.



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



Our manufacturing sites are certified ISO 9001, IATF 16949, or AS/EN 9100, ISO 14001 and ISO 45001 (Selected Sites)

# Performance Data – ThermoJacket® E

| Property                            | Test Method   | Result                                  |
|-------------------------------------|---|---|
| PHYSICAL                            |   |   |
| Thermal Endurance                   | BH100-521   | Pass - No degradation                   |
| Cold/Wet Endurance                  | BH100-522   | Pass - No degradation                   |
| Thermal Containment                 | BH100-509   | See table below                         |
| Flammability                        | SAE J369<br>D45 1333  | Does not ignite<br>Type A - No ignition |
| Flammability with Oil Contamination | BH100-524 (ref. SAE J369)   | Self-extinguishing                      |
| Vibration                           | BH100-507   | Retains Structural Integrity            |
| CHEMICAL                            |   |   |
| Fluid Resistance                    | BH100-003F<br>50/50 Antifreeze/Distilled Water<br>5% NaCl<br>Transmission Fluid<br>Diesel Fluid LSRD-4<br>ASTM Reference Fuel C<br>SAE 5W30<br>Brake Fluid SAE RM-66<br>Power Steering Fluid<br>Windshield Washer Fluid | No degradation or loss of flexibility   |
| Salt Spray                          | ASTM G85  | Pass                                    |
| RESISTANCE TO WASHING               |   |   |
| Power Washing Endurance             | BH 100-539  | No degradation                          |

All numeric performance data shows average or typical values. Please consult your sales representative for product drawings, test reports and OEM approvals.

## Thermal Containment Test per BH100-509 on ThermoJacket® E 2" (51mm)

| Exhaust Pipe Parameters                         |        |
|---|--------|
| Inlet Gas Temperature                           | +832°C |
| Pipe Surface Temperature (w/ ThermoJacket® E)   | +649°C |
| Sleeve Surface Temperature (w/ ThermoJacket® E) | +387°C |
| Results   |        |
| Thermal Containment (Temperature Reduction)     | +262°C |
| Temperature at 10mm away from sleeve (ambient)  | +137°C |
| Temperature at 25mm away from sleeve (ambient)  | +106°C |
| Temperature at 100mm away from sleeve (ambient) | +76°C  |

Note: Thermal Containment = Pipe Surface Temperature - Sleeve Surface Temperature

## Availability

ThermoJacket E is available in a range of sizes and lengths designed to meet specific application requirements. Please contact your sales representative for availability.



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