

Flexible Solutions

DURAFLEXTM INC.

for Rigid Applications

DETAILS

PRODUCT

DURA-SLEEVE THERMAL-ETM INSULATION SHEATH



DURA-SLEEVE THERMAL-ETM can endure extreme temperatures up to 1382°F (750°C) & is designed to insulate exhaust applications. The sheath is woven with basalt yarn.

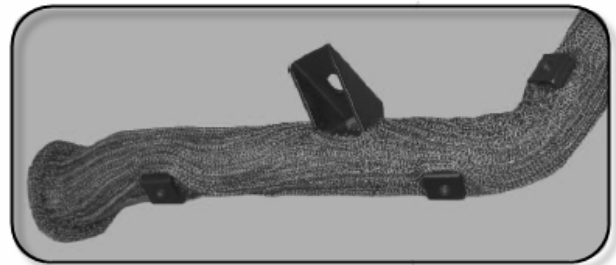
OVERVIEW

Operating Temperature +1202°F / +650°C	Peak Temperature 1382°F / 750°C
Exceedingly Flexible	Inconspicuous
Part Conformity	Exceptional thermal insulation.

DURA-SLEEVE THERMAL-ETM intense levels of insulation control exhaust gas temperatures while flowing throughout the exhaust system. To guarantee an absolute adaptation to exhaust gas & particulars, preservation of exhaust gas temperature is vital. Escalating stringent government guidelines on emissions controls make a total conversion compulsory to measure up to the new industry standards.

The pioneering design of the **DURA-SLEEVE THERMAL-ETM** make it scalable up to 1.5 times its inherent span to adapt to flanges & curvatures characteristically seen on exhaust system mechanisms. **DURA-SLEEVE THERMAL-ETM** offers alternative coupling techniques. Vent outlets have recently been incorporated into the design to divert heat away from the component.

To simplify installation & uphold the veracity of the sheath construction, recent progress to the **DURA-SLEEVE THERMAL-ETM** emphasizes an adaptation with custom fixed bracket spaces.



STANDARD APPLICATIONS

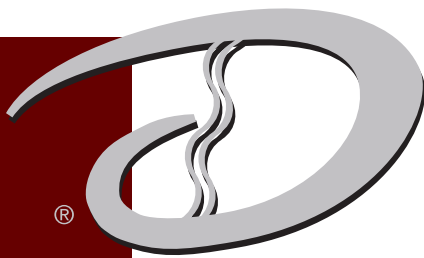
Exhaust System Parts	(EGR) Exhaust Gas Recirculation Tubing
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DURA-SLEEVE THERMAL-E™ | PERFORMANCE DATA

PROPERTIES	TESTING METHODS	RESULTS
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 w/ Oil Contamination	BH 100-524 (ref. SAE J369)	Self-extinguishing
Vibration	ASTM D4728	Pass—No degradation
CHEMICAL		
Fluid Resistance <ul style="list-style-type: none"> ■ 50/50 Antifreeze ■ 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		
Power Washing Test	Internal testing method	No degradation

Numerical data reflects standard or average values.

PRODUCT AVAILABILITY

DURA-SLEEVE THERMAL-E™ is packaged & shipped in pieces. Quantities per package are relative to the application length & can vary from 25-200 parts.

Thermal Containment Test per BH 100-509 based on DURA-SLEEVE THERMAL-E™ 3.5" (89mm)

EXHAUST PIPE PARAMETERS	
Inlet Gas	1522.4°F / 828°C
Inlet Pipe Surface	993.2°F / 534°C
Pipe	1025.6°F / 552°C
Sleeve	573.8°F / 301°C
RESULTS / Distance from sleeve (ambient)	
Thermal Containment	483.8°F / 251°C
Temperature at .787" (20mm)	249.8°F / 121°C
Temperature at 1.18" (30mm)	212°F / 100°C
Temperature at 3.94" (100mm)	1778°F / 81°C

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