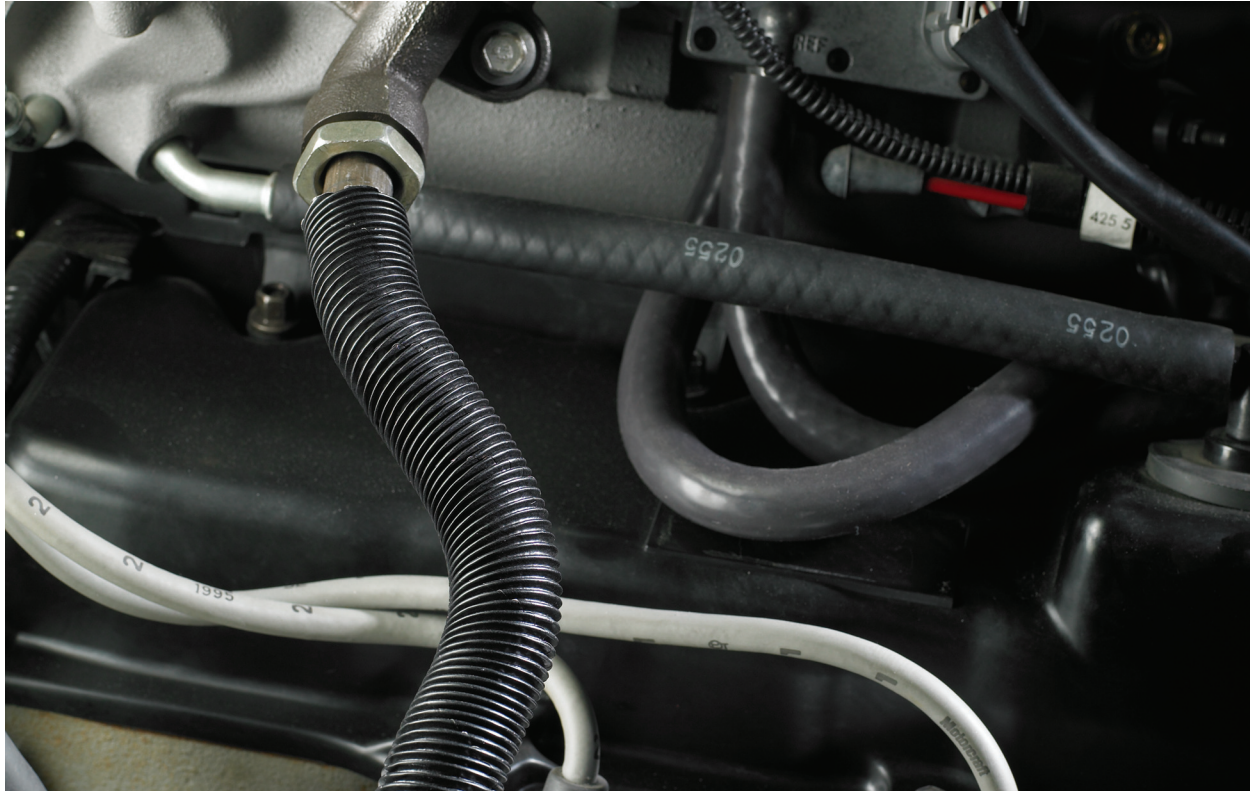


Clevaflex® Ex-Flex™ Sleeves

Protect Critical Components From
Internal & External Heat Sources



Clevaflex® Ex-Flex™ Sleeves are convoluted, multi-ply sleeves using two layers of aluminum foil mechanically overlapped then bonded to each other with a thermosetting adhesive.

Ex-Flex Sleeves have dual functionality: they can hold heat in as an insulator to prevent excessive radiant heat or they can protect components from other heat sources by using their black aluminum exterior finish and new wall design. Ex-Flex Sleeves also offer superior ease of installation due to this new wall design, and are a cost-effective alternative to traditional thermal heat sleeves.

The new proprietary design and manufacturing process enables the Ex-Flex Sleeve to be lightweight and crush-resistant, yet capable of being precisely bent to contour pre-bent tubing designs. Ex-Flex Sleeves have a highly engineered appearance using black aluminum and allow for custom ends (slits, slots or notches) to increase thermal protection and easy installation. Ex-Flex Sleeves are available in diameter sizes from 18mm to 50mm.

Primary Applications:

- EGR Systems
- Power Steering hoses
- Air Conditioning hoses
- Heater / Radiator hoses
- TOC & Fuel lines
- Brake lines or hoses
- Ram Air / Turbo Systems
- Exhaust & Downpipes

Features:

- Superior thermal protection
- Aesthetically appealing
- Fray resistant
- Crush resistant
- High strength-to-weight ratio
- Fluid resistant
- Abrasion protection
- Easy to install and route
- Custom end finished (slit or notch)

For material specifications, product drawings, other information or to purchase this product, please contact our sales and engineering offices at 216-941-6505.

Clevaflex®

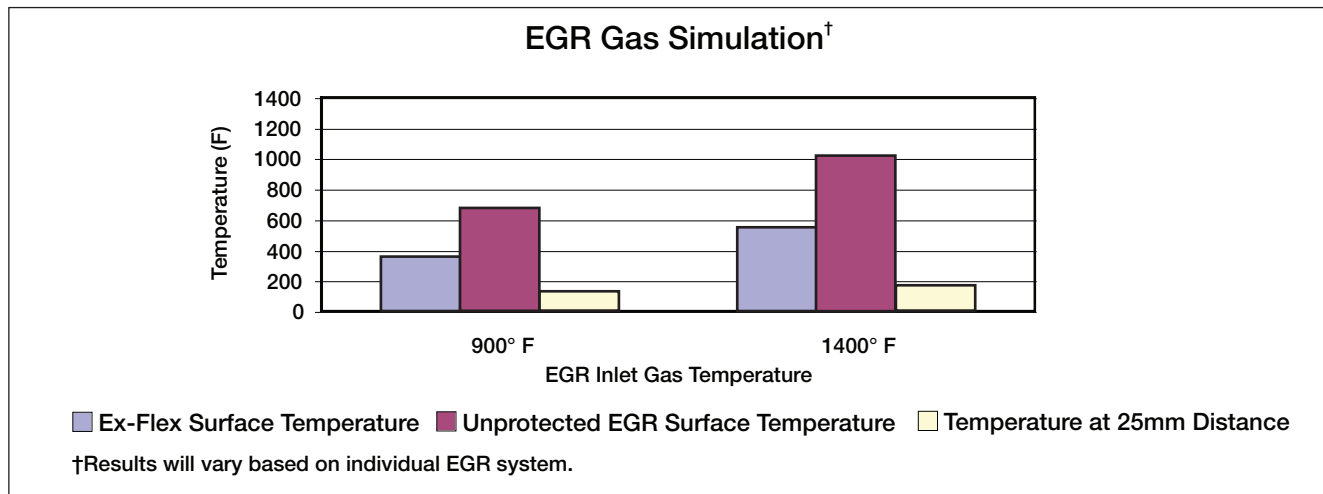
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Sleeve Construction	
Sleeve Type	Materials (Inside to Outside)
Ex-Flex	Aluminum - Black Aluminum

Performance Data		
Test	Property	Results
Heat Aging	10 hours at 350°C	No Delamination
Long Term Durability	500 hours at 232°C	No Delamination
Thermal Endurance	6 hours 12mm away from a 550°C heat source	No Delamination
ASTM D4723, Method 36	Vertical Flammability	Pass
ASTM D1876	Fluid Resistance	No Delamination in Water, Salt Water, Brake Fluid or Motor Oil
Compression Strength	Radial Compression of 196N	Outer Diameter Strain Less Than 10%



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