



THERMAL MANAGEMENT

# Clevaflex® F-A2

## Product Highlights

- High operating temperature
- Tubular and wrappable constructions
- Flexible and crimpable
- Easy installation
- Maintains shape and circular profile when bent
- Custom end finishing
- Fray resistant
- Durable
- Abrasion protection
- Fluid resistant

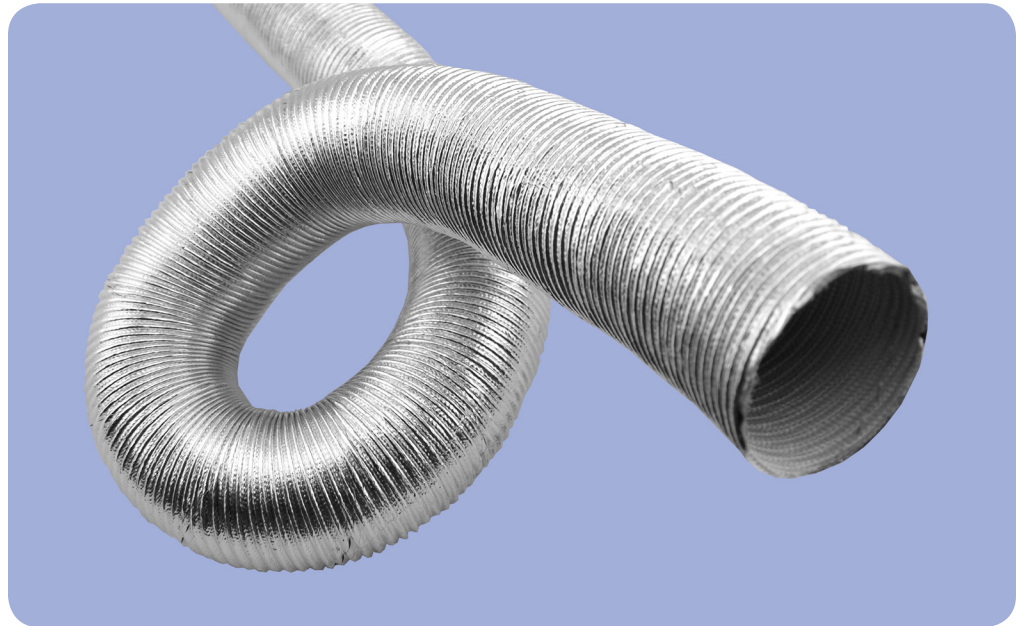
## Typical Applications

- Fuel and hydraulic lines
- Power steering hoses
- Heater / radiator hoses
- Control cables
- TOC lines



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

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**Clevaflex® F-A2** is a reflective corrugated tube designed to provide thermal protection for components in radiant heat environments. Its multi-ply construction of aluminum laminated fiberglass coupled with an aluminum foil exterior also allows for good insulation to components requiring stable temperatures for optimum performance efficiency.

Clevaflex F-A2 can be used on fuel and hydraulic lines, control cables, and any other critical components in close proximity to engine and exhaust systems. The raw materials and proprietary manufacturing process used to form this layered product allow Clevaflex F-A2 to withstand high operating temperatures up to +400°C (+752°F) and excursion temperatures up to +600°C (+1112°F) while also providing durability in the high vibration and underbody conditions inherent in automotive applications. The manufacturing process produces a strong and lightweight convoluted sleeve that can be precisely bent and routed without degradation or frayed ends. The highly engineered construction also allows for customization (slits, slots or notches) to increase the ease of installation along with enabling its positioning on the application due to its ability to be crimped at the ends.

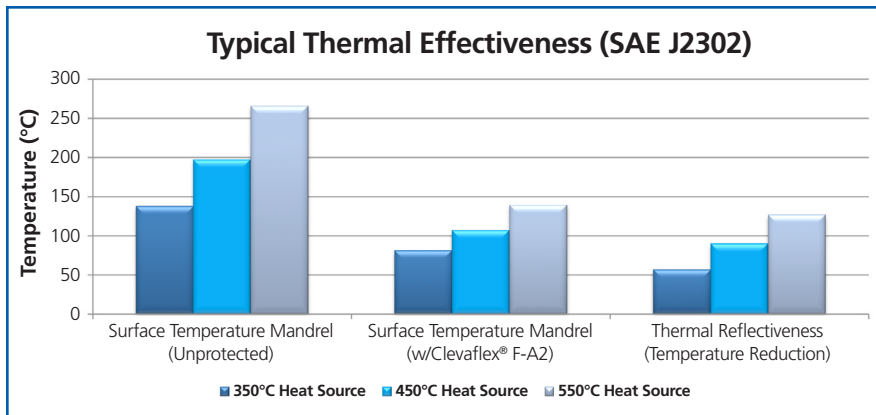
**BentleyHarris®**  
Protection Products

# Performance Data – Clevaflex® F-A2

Property	Test Method	Result
Temperature Rating	240 hours at +425°C (400°C rating) 3,000 hours at +350°C 24 hours at +600°C	Pass +400°C (+752°F) Pass +350°C (+662°F) Pass +600°C (+1112°F)
Low Temperature Flexibility	BH100-016A	Pass -40°C (-40°F)
Flammability	SAE J369	Self-extinguishing
Fluid Resistance	BH100-003B	Pass
Stone Impingement	SAE J400	Pass, no holes in product

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

## Thermal Effectiveness of Sleeving Insulation



Note: Mandrel is parallel to and 25mm (1") away from heat source

## Availability

Clevaflex F-A2 is available in a range of sizes and cut to your specification. Color is aluminum (silver). Please contact your sales representative for availability.

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