



## Product Highlights

- Operating temperature up to +540°C (+1004°F)
- Excellent thermal insulation
- Flame retardant
- Fluid and chemical resistant
- Lightweight & low profile
- Tubular shape

## Typical Applications

- Wire harnesses
- Fuel and hydraulic lines
- Cables and hoses near engines and exhaust systems
- Exhaust Gas Recirculation (EGR) tubes
- Exhaust system component protection

**ThermFlex® 1210** is a heat treated and saturated sleeve that provides superior protection against conducted and convective heat. Constructed of braided fiberglass, ThermFlex 1210 is used in high temperature areas to provide superior insulation to components that must maintain elevated temperatures to maximize performance efficiency. ThermFlex 1210's saturated coating aids in the handling and installation of the product while also providing an increased level of durability compared to uncoated fiberglass sleeving.

As an insulator, ThermFlex 1210 is used on Exhaust Gas Recirculation (EGR) tubes, thermactor tubes and exhaust system components to provide maximum fuel efficiency and lowered emissions.

ThermFlex 1210 is also used on wire harnesses, fuel and hydraulic lines, cables and hoses in close proximity to engines and exhaust systems. Its braided construction allows excellent flexibility in temperatures as low as -70°C (-94°F).



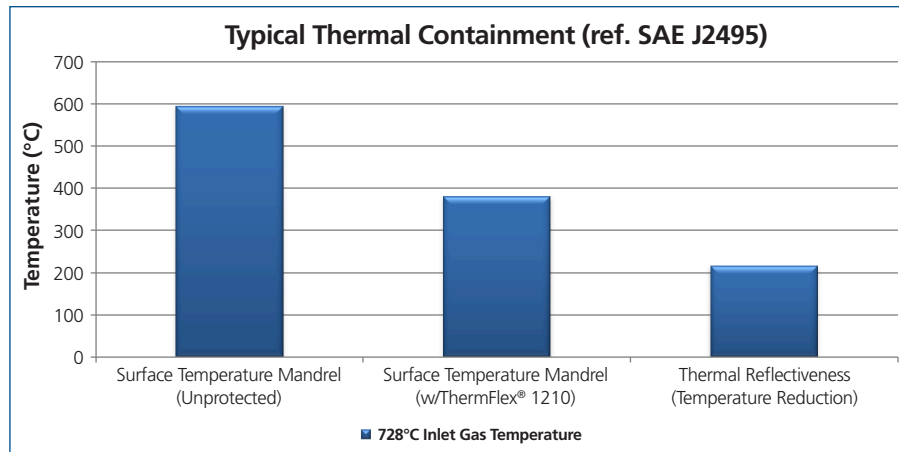
Our manufacturing sites are certified ISO 9001, IATF 16949, or AS/EN 9100, ISO 14001 and ISO 45001 (Selected Sites)

# Performance Data – ThermFlex® 1210

Property	Test Method	Result
Temperature Rating	Heat Ageing 240hrs at +540°C ISO 6722	Pass +515°C (+959°F) No visible damage or degradation
Low Temperature Flexibility	SAEJ2192	Pass -70°C (-94°F)
Flammability	FMVSS 302 D45 1333	Pass Self extinguishing - Type B
Fluid Resistance	D47 1924	No visible degradation or alteration after being exposed to the following test cycles: <ul style="list-style-type: none"> <li>• Immersion for 15s at 23°C, followed by a drying period of: <ul style="list-style-type: none"> <li>– 24h at 150°C: motor oil, automatic transmission fluid, manual transmission oil.</li> <li>– 24h at 23°C: zinc chloride, brake fluid.</li> </ul> </li> <li>• Immersion for 48h at 70°C, followed by a drying period of: <ul style="list-style-type: none"> <li>– 24h at 23°C: Urea of clean up Ad blue.</li> </ul> </li> <li>• Immersion for 24h: <ul style="list-style-type: none"> <li>– At 40°C, followed by a drying period of 4h at 23°C: for gazole, unloaded petrol 98, Std fuel C + 15% methanol, E85 bio ethanol.</li> <li>– At 70°C, followed by a drying period of 4h at 23°C, for windscreen washer.</li> <li>– At 118°C, by a drying period of 4h at 23°C, for engine coolant.</li> </ul> </li> </ul>

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

## Standard Sizes

Commercial Part Number	Nominal Diameter (mm)
ThermFlex 1210 8	8
ThermFlex 1210 10	10
ThermFlex 1210 11	11
ThermFlex 1210 13	13
ThermFlex 1210 15	15
ThermFlex 1210 16	16
ThermFlex 1210 19	19
ThermFlex 1210 22	22
ThermFlex 1210 25	25
ThermFlex 1210 32	32

\* The selection of the tubular or slit version of this product in combination with application based variables, will influence the sleeve size required. Proper sleeve sizing is at the discretion of the end user. Please consult your local sales representative for recommendations and support.

## Construction / Characteristics

Outer Layer:	High temperature coating
Inner Layer:	Fiberglass

## Availability

Standard sizes are listed here, Additional sizes could be available upon request. Note smaller sizes are available dependent upon region. Please contact us to learn more.

Available in tubular shape. Customization for optimal installation also available.

Available in spools and custom cut lengths. Recommended cut lengths are in 5mm increments. Please see regional drawings for cut length tolerances.

Standard color is black. Additional colors are available.

Please consult your local sales representative for regional packaging details and standards.



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