

Reflectosleeve

Reflectosleeve is a range of highly reflective, woven glass fibre reinforced sleeveings for use in protecting components from both radiant and conductive heat sources.

The outer aluminium maintains a highly reflective finish with the inner layer of woven glass fibre offering significant thermal insulation.

Reflectosleeve coverings are constructed of a woven E glass fabric with aluminium foil laminated to its outer surface utilising a resilient high temperature adhesive. The sleeve is formed by folding the material and sewing the edge with an Aramid or Fibre-glass thread. To minimise fraying the glass fabric is treated with a suitable high temperature resin.

Reflectosleeve is a low profile, and easy to apply solution for the component it protects.

Typical applications

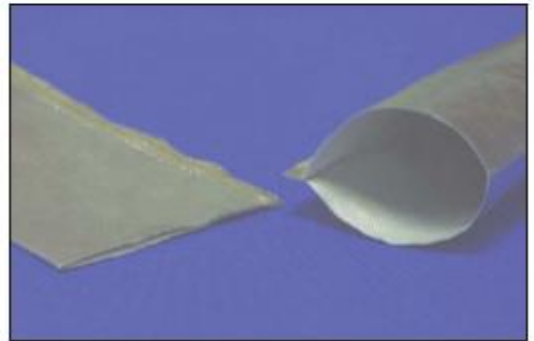
Reflectosleeve offers superior thermal protection to components, especially in the Automotive Industry, where they are in close proximity to engines and exhaust systems.

Reflectosleeve is typically used to cover/protect: -

- Engine wire harnesses
- Hoses and tubing
- A/C line
- Hydraulic and fuel lines
- Control cables.

Features

- Working temperature 200oC
- Flexible
- Fluid and chemical resistant
- Easy Installation



Reflectosleeve

Performance Data

| Test Method | Property | Result |
|--|------------------------------|-----------------|
| ASTM D3776 | Weight - gsm | 330 +/- 10% |
| ASTM D1777 | Thickness - mm | 0.22mm +/- 0.01 |
| ASTM D5034 | Tensile Strength N/mm | |
| | Warp | 40 |
| | Weft | 20 |
| ASTM D5035 | Tear Strength – N | |
| | Warp | 1,000 |
| | Weft | 510 |
| ASTM E408 | Emissivity | 0.1 |
| ASTM D774 | Mullen Burst MPa | 2.34 |
| ASTM D4723 ID No. 36 *slight discolouration only | Flame Resistance | 0* |
| | Char Length – mm | Instantaneous |
| | Flame Out – sec. | None |
| | Afterglow – Sec. | |
| ASTM D1876 30 minutes immersion at 23 +/- 1°C. Samples must meet minimum peel strength of 0.1N/mm or adhesion shall exceed strength of aluminium foil (PASS) i.e. foil is torn. | Fluid Resistance | Pass |
| | Brake Fluid | Pass |
| | Distilled Water | Pass |
| | 3% NaCl/Water Soln. | Pass |
| | Engine Oil | |
| Five samples aged for 30 minutes at 150°C. Samples must not delaminate, discolour, warp or shrink more than 3% in any direction. | Heat Ageing | Pass |

Availability

Relectosleeve is available in a range of bore sizes from

| Length | Tolerance |
|----------------|-----------|
| Less than 25mm | +/- 1mm |
| 26mm - 100mm | +/- 2mm |
| 101mm – 500mm | +/- 3mm |
| 501mm – 1000mm | +/- 5mm |
| Over 1000mm | +/- 7mm |

Reflectosleeve is available in thicknesses 0.22mm and can also be supplied as bespoke parts made according to specific designs and incorporating innovative fixing methods (e.g. press studs) which allows ease of assembly when covering complex components

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