ISOAFS-ALU

- ISOAFS-ALU thermally insulated aluminium flexible air ducts are specifically produced for low and medium pressure heating, cooling, ventilation, exhaust and air conditioning systems.

- Allght ISOAFS-ALU is produced from multi-layer aluminium and polyester, strengthened with high tension hard steel spring wire, surrounded with glass wool insulation and an aluminium vapour barrier.

- ISOAFS-ALU has high elasticity and flexibility. It can be easily fitted to circular, oval or rectangular connectors.

- The fire resistance of ISOAFS-ALU has been tested and certified by various international bodies.

TECHNICAL PROPERTIES

<table>
<thead>
<tr>
<th>TYPE</th>
<th>ISOAFS-ALU.70</th>
<th>ISOAFS-ALU.F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Resistance</td>
<td>Difficult to ignite</td>
<td>Limited combustibility + Difficult to ignite</td>
</tr>
<tr>
<td>Inner Duct Construction</td>
<td>3 ply aluminium + 2 ply polyester</td>
<td>1 ply aluminium + 2 ply polyester</td>
</tr>
<tr>
<td>Jacket Construction</td>
<td>1 ply aluminium + 2 ply polyester</td>
<td>1 ply aluminium + 2 ply polyester</td>
</tr>
<tr>
<td>Nominal Thickness (Inner Duct / Jacket)</td>
<td>70 micron / 45 micron</td>
<td>74 micron / 45 micron</td>
</tr>
<tr>
<td>Available Dimensions</td>
<td>Ø 52 mm – Ø 800 mm</td>
<td>Ø 52 mm – Ø 800 mm</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-30 °C / +150 °C</td>
<td>-30 °C / +250 °C</td>
</tr>
<tr>
<td>Air Velocity</td>
<td>35 m/s (max)</td>
<td>30 m/s (max)</td>
</tr>
<tr>
<td>Operating Pressure</td>
<td>2600 Pa (max)</td>
<td>2500 Pa (max)</td>
</tr>
<tr>
<td>Insulation / Thickness / Density</td>
<td>Glass wool / 25 mm / 16 kg/m³</td>
<td>Glass wool / 25 mm / 16 kg/m³</td>
</tr>
<tr>
<td>Thermal Conductivity</td>
<td>k = 0.037 W/mK</td>
<td>k = 0.037 W/mK</td>
</tr>
<tr>
<td>Standard Length</td>
<td>10 m</td>
<td>10 m</td>
</tr>
<tr>
<td>Packing</td>
<td>Single cardboard box</td>
<td>Single cardboard box</td>
</tr>
</tbody>
</table>

FIRE CERTIFICATE

- France: M1, M0, M1
- Italy: Class T, Class D
- Europe: EN ISO 1716 (Inner Duct) smoke calorific value test report

CERTIFICATE

- Russia: GOST-R

ALTERNATIVE CONSTRUCTIONS

- Customized lengths
- Private label
- White polyester insulation
- 38, 40 mm & 50 mm glass wool insulation
- 24 kg/m³ glass wool insulation
- PE jacket

ALUMINIUM LAMINATED BODY

- Difficult to ignite (ISOAFS-ALU.70)
- Limited combustibility (ISOAFS-ALU.F)
- Impermeable to UV rays
- High resistance to UV rays
- 98 % reflective
- Resistant to chemicals

FLEXIBLE & SEAMLESS CONSTRUCTION

- Easy to store
- Easy to transport
- Low installation cost
- Allght
- Low operation and maintenance cost

SMOOTH INNER SURFACE

- Minimum pressure loss
- Anti-static
- Dust proof interior

HIGH TENSION STEEL WIRE

- High durability
- High resistance to deformation
- Easy to install

GLASS WOOL INSULATION

- Heat resistant (Certified, EN 13501-1, Class A1),
- UL 723 (Flame Spread index = 0)
- No fiber erosion
- Minimal energy loss
- Perfect insulation property
- No-condensation

ALUMINIUM LAMINATED JACKET

- Difficult to ignite (Certified)
- High resistance to wear and tear
- Impermeable to UV rays
- Resistant to chemicals

The dimensions, tolerances and mechanical resistance of ISOAFS-ALU are tested, classified and certified according to EN 13180.