THERMALLY INSULATED UL 181 CLASS 1 CERTIFIED POLYESTER FLEXIBLE AIR DUCTS

ISOAFS-POLY.181

- ISOAFS-POLY.181 thermally insulated polyester flexible air ducts are specifically produced for low and medium pressure heating, cooling, ventilation, exhaust and air conditioning systems.

- Airtight ISOAFS-POLY.181 is produced from multi-layer polyester, strengthened with high tension steel spring wire, surrounded with glass wool insulation and aluminium vapour barrier.

- ISOAFS-POLY.181 is highly elastic and flexible. It can be easily fitted to circular or oval connectors.

PROPERTIES & ADVANTAGES

POLYESTER LAMINATED INNER DUCT
- High resistance to UV rays
- Resistant to chemicals
- Maintenance free

FLEXIBLE & SEAMLESS CONSTRUCTION
- Easy to store
- Easy to transport
- Low installation cost
- High resistance to wear and tear
- Airtight
- Low operation and maintenance costs

SMOOTH INNER SURFACE
- Minimum pressure loss

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
  (Smoke developed index = 0)
  (Flame spread index = 0)
- No fiber erosion
- Minimal energy loss
- Perfect insulation property
- Non-condensing property

ALUMINIUM LAMINATED JACKET
- Difficult to ignite (Certified)
- High resistance to wear and tear
- Impermeable to UV rays
- High resistance to UV rays
- 98 % reflective
- Resistant to chemicals

The dimensions, tolerances and mechanical resistance of ISOAFS-POLY.181 are tested, classified and certified according to EN 13180.
TECHNICAL PROPERTIES

<table>
<thead>
<tr>
<th>TYPE</th>
<th>ISOAFS-POLY.181</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner Duct Construction</td>
<td>2 ply polyester</td>
</tr>
<tr>
<td>Nominal Thickness of Inner Duct</td>
<td>30 micron</td>
</tr>
<tr>
<td>Jacket Construction</td>
<td>1 ply aluminium / 2 ply polyester</td>
</tr>
<tr>
<td>Nominal Thickness of Jacket</td>
<td>45 micron</td>
</tr>
<tr>
<td>Available Diameters</td>
<td>Ø 82 mm - Ø 800 mm</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-30 °C / +120 °C</td>
</tr>
<tr>
<td>Air Velocity</td>
<td>30 m/s (max)</td>
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<tr>
<td>Operating Pressure</td>
<td>3000 Pa (max)</td>
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<tr>
<td>Insulation</td>
<td>Glass wool</td>
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<tr>
<td>Insulation Thickness</td>
<td>25 mm</td>
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<tr>
<td>Insulation Density</td>
<td>16 kg/m²</td>
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<tr>
<td>Standard Length</td>
<td>7.6 m</td>
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<tr>
<td>Packing</td>
<td>Single cardboard box</td>
</tr>
</tbody>
</table>

FIRE CERTIFICATE

- Flame Spread Index [UL 723 as per UL 181]: < 25
- Smoke Developed Index [UL 723 as per UL 181]: < 50

CERTIFICATE

- Russia: GOST-R

Available on request

- Customized lengths
- Private label
- White polyester insulation

Insulation Options Available

- R 4.2
- R 6.0
- R 8.0