



**TYPES:**

**ISOAFS-ALU.70**  
(M1, difficult to ignite)

**ISOAFS-ALU.F**  
(M0+M1, limited combustibility + difficult to ignite)

**NO-CONDENSATION**

# 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.
- Airtight 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.

## PROPERTIES & ADVANTAGES

### ALUMINIUM LAMINATED BODY

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

### 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) (Smoke Developed index = 0)
- No fiber erosion
- Minimal energy loss
- Perfect insulation property
- No-condensation

### FLEXIBLE & SEAMLESS CONSTRUCTION

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

### SMOOTH INNER SURFACE

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

### ALUMINIUM LAMINATED JACKET

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

## TECHNICAL PROPERTIES

TYPE	ISOAFS-ALU.70	ISOAFS-ALU.F
Fire Resistance	Difficult to ignite	Limited combustibility + Difficult to ignite
Inner Duct Construction	3 ply aluminium + 2 ply polyester	3 ply aluminium + 1 ply polyester
Jacket Construction	1 ply aluminium + 2 ply polyester	1 ply aluminium + 2 ply polyester
Nominal Thickness (Inner Duct / Jacket)	70 micron / 45 micron	74 micron / 45 micron
Available Diameters	Ø 52 mm – Ø 800 mm	Ø 52 mm – Ø 800 mm
Temperature Range	-30 °C / +150 °C	-30 °C / + 250 °C
Air Velocity	30 m/s (max)	30 m/s (max)
Operating Pressure	3000 Pa (max)	3000 Pa (max)
Insulation / Thickness / Density	Glass wool / 25 mm / 16 kg/m <sup>3</sup>	Glass wool / 25 mm / 16 kg/m <sup>3</sup>
Thermal Conductivity	k = 0.037 W/mK	k = 0.037 W/mK
Standard Length	10 m	10 m
Packing	Single cardboard box	Single cardboard box

### FIRE CERTIFICATE

France	M1	M0 + M1
Italy	Class 1	Class 0
Europe		EN ISO 1716 (Inner Duct) gross calorific value test report

### CERTIFICATE

Russia	GOST-R	GOST-R
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### Available on request

- Customized lengths
- Private label
- White polyester insulation
- 38, 40 mm & 50 mm glass wool insulation
- 24 kg/m<sup>3</sup> glass wool insulation
- PE jacket

### Insulation Options Available



## ALTERNATIVE CONSTRUCTIONS

Product Name	Difference from the standard type
ISOAFS-ALU.70-R6 ISOAFS-ALU.F-R6	R 6.0 glass wool insulation
ISOAFS-ALU.70-R8 ISOAFS-ALU.F-R8	R 8.0 glass wool insulation
ISOAFS-ALU.70-D24 ISOAFS-ALU.F-D24	24 kg/m <sup>3</sup> glass wool insulation
ISOAFS-ALU.70-PE	1 ply PE jacket, in grey color
ISOAFS-ALU.70-W ISOAFS-ALU.F-W	White polyester insulation 25 mm in thickness 14 kg/m <sup>3</sup> in density