

Insulating tape – the essential accessory in every fitter's arsenal



*Figure 1
Sealing tapes offered by Alnor*

Aluminum foil based tapes are used to insulate fitting and ventilation duct connections. Their flexibility allows perfect adhesion and fit on uneven surfaces.

Tape is widely used for masking, insulation, screening as well as to reflect light.

Tape is used in the following applications:

- » insulating ventilation ducts,
- » insulating fireplace ducts,
- » insulating on-roof components,
- » sealing rigid and flexible duct insulation,
- » installing and repairing fireplaces.

Smooth aluminum tapes

Smooth aluminum tapes are high quality, self-adhesive aluminum tapes with acrylic adhesive and spacer. The tapes are soft and flexible to facilitate good adhesion.

An example of this kind of insulation is the high-temperature aluminum TAL tape. The TAL tape is used to join ducts and round fittings as well as flexible ducts.



*Figure 2
Aluminium tape TAL*

It is also used for installing ventilation systems, dust extractors and in hot air distribution systems. Placed on the insulation layer on bends and junctions, it allows to keep the integrity of the aluminum protective layer so as to prevent moisture from permeating into the insulation.

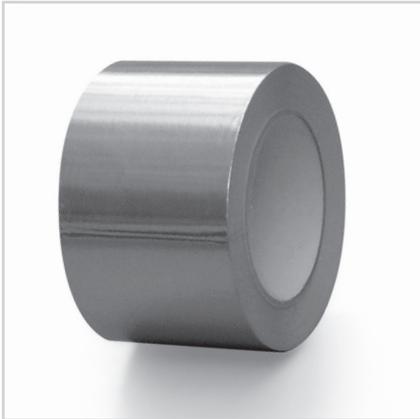


Figure 3
 MET metallized tape

Temperature resistance of TALT tapes depends on the actual type and can be between 80-250°C.

Metalized tapes

Tapes with good adherence PP - metalized are often used for insulation and masking ventilation ducts as well as to insulate and join mineral wool materials with an aluminum layer.

MET aluminized adhesive tape is made of metalized PP foil. The tape ensures durable and effective insulation of the duct.

Temperature resistance of MET tapes is 80°C.

Aluminum tapes for fireplaces

High-temperature aluminum tapes may be used in places where the temperature exceeds 300°C. This allows the tape to be used for insulating fireplace installations.

An example of this kind of insulation is the high-temperature aluminum TALK tape.

Mesh-reinforced aluminum tapes

Mesh-reinforced aluminum tapes offer much higher mechanical resistance in comparison to the smooth surface tapes due to the inwrought mesh fibers. They are recommended for the insulation of ventilation ducts and piping.

Reinforced tape is intended for use on bends and intersections of insulation layer as well as on contact points of materials and segments made of glass wool or mineral wool.

It features high tear resistance and an adhesive which is highly resistant to temperature. Alnor offers several types of reinforced tape.

TALE aluminum mesh reinforced tape, owing to the inwrought fiberglass mesh features high tear resistance. Its structure allows it to be used for installing, connecting and securing technical insulations. Temperature resistance of TALE tapes is 80°C.

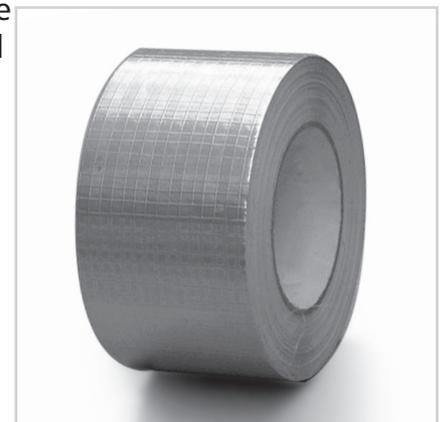


Figure 4
 Tape reinforced TALE



*Figure 5
Tape reinforced DUCT*

TLV aluminum adhesive tape reinforced with diamond-shaped mesh features fiberglass inwrought mesh to increase its durability. Temperature resistance is 80°C.

The DUCT adhesive repair tape features an additional fabric reinforcement. It's water-resistant. It is used to insulate duct and round fitting connections as well as with flexible ducts. It effectively insulates ducts and fittings from moisture and atmospheric conditions.

The tape ensures durable and effective insulation of the installation. Perfect for joining insulation jackets in ventilation systems. It can also be utilized for all types of repair. Temperature resistance of DUCT tapes is 60°C.

Butyl tapes with aluminum foil

Butyl tapes with aluminum foil is used for making construction insulations. Butyl is very flexible and does not get brittle with time. It is an alternative to bituminous mass. An example of this is the TALT tape.

The TALT tape is based on the self-adhesive 1 mm butyl natural rubber, it is used to join ducts and round fittings as well as flexible ducts. It can be used to insulate roofing near chimneys, roof windows, on-roof fittings and other ventilation system components as well as outdoor components.

Aluminum layer thickness is 40 microns.



*Figure 6
Butyl tape TALT*



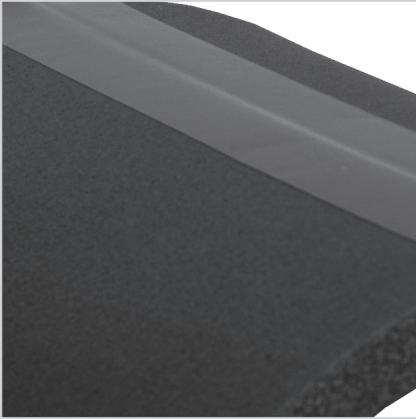
*Figure 7
Sealing Tape TAPV*

PVC tapes

TAPV insulation tape is made of 20 micron PVC layer and covered with a synthetic rubber adhesive on one side.

It is used to insulate duct and round fitting connections as well as with flexible ducts. It effectively insulates ducts and fittings from moisture and atmospheric conditions.

The tape ensures durable and effective insulation of the installation. Dedicated for insulating ventilation ducts and pipes which are less susceptible to environmental conditions. Its



*Figure 8
TAPV sealing tape to
connect the mat
rubber insulation*

main feature is high extensibility, allowing to create an even surface after adhesion.

Advantages of using insulation tapes

Aluminum foil tapes, despite low thickness, offer good mechanical resistance and protection from moisture and dirt, they create a barrier to limit heat loss.

They can be used to secure duct connections from moisture and steam, especially insulated flexible hoses.

They are used for insulating or masking welds, connections or surfaces which require additional layer of protection.

Features:

- » excellent adhesion and peel resistance between the glue and the surface,
- » good initial and long-term adhesion,
- » good moisture and fire resistance,
- » good temperature and ageing resistance.

Alnor insulation tapes feature an adhesive layer on the entire internal surface, protected with a spacer layer which facilitates easy and fast installation.

Before applying the tape, ensure that the glued layers are dry, clean and degreased.

To preserve the adhesive properties of the tape, they should be stored in a temperature of about +21°C and background moisture no greater than 50%.

Finally, keep them away from direct sunlight.

Find more information on: www.ventilation-alnor.co.uk.



*Figure 9
Tape used to seal duct and fittings
connecting*

Table nr 1
Adhesive tapes in Alnor's offer

Code	Width [mm]	Length [mb]	Temp. [°C]	Thickness [mikrony]	Adhesive	Application
TAL-50-50	50	50	80	30	acrylic	SPIRO ducts and fittings
TAL-75-50	75	50	80	30	acrylic	SPIRO ducts and fittings
TAL-100-50	100	50	80	30	acrylic	SPIRO ducts and fittings
TAL-50-10	50	10	80	30	acrylic	SPIRO ducts and fittings
TAL-50-50	50	50	80	30	acrylic	SPIRO ducts and fittings
TAL-75-50	75	50	80	30	acrylic	SPIRO ducts and fittings
TAL-25 50-50	50	50	250	50	acrylic	Hot air distribution
TAL-25 75-50	75	50	250	50	acrylic	Hot air distribution
TAL-25 100-50	100	50	250	50	acrylic	Hot air distribution
TAL-25-50-10	50	10	250	50	acrylic	Hot air distribution
TALK 50-50	50	50	350	50	acrylic	fireplace installations
TALK 50-10	50	10	350	50	acrylic	fireplace installations
TALE 50-50	50	50	80	40	acrylic	isolation, blind with foil 5x5 grid
TALE 75-50	75	50	80	40	acrylic	isolation, blind with foil 5x5 grid
TALE 100-50	100	50	80	40	acrylic	isolation, blind with foil 5x5 grid
TLV 50-50	50	50	80	125	acrylic	isolation, blind with foil mesh diamond
TLV 75-50	75	50	80	125	acrylic	isolation, blind with foil mesh diamond
DUCT 50-50	50	50	60	150	rubber	SPIRO ducts, flexible ducts, cover
MET 50-50	50	50	80	65	acrylic	flexible connections
MET 75-50	75	50	80	65	acrylic	flexible connections
TAPV-B 50-20	50	20	80	20	synthetic rubber	rubber mat - black
TAPV-S 50-20	20	20	80	20	synthetic rubber	rubber mat - gray
TALT-50-50	55	40	-130	40	based on butyl rubber	SPIRO ducts, flexible ducts, cover
TAPV 100-10	100	10	80	20	synthetic rubber	rubber mat
TAPV 50-20	50	20	80	20	synthetic rubber	rubber mat
TAPV 75-20	75	20	80	20	synthetic rubber	rubber mat
TAPV 100-20	100	20	80	20	synthetic rubber	rubber mat
TAPV 50-33	50	33	80	20	synthetic rubber	rubber mat
TAPV 75-33	75	33	80	20	synthetic rubber	rubber mat
TAPV 100-33	100	33	80	20	synthetic rubber	rubber mat
TALT-50-50	55	40	-40 - +90	40	based on butyl rubber	SPIRO ducts, flexible ducts, cover