

AIRTECH


EUROPE Sarl




Vacuum Bagging Materials for Glass Lamination Autumn 2020



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AIRTECH
ADVANCED MATERIALS GROUP

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Welcome



Vacuum Bagging Films



Breather & Bleeder
Fabrics



Release Fabric &
Peel Ply



Combo-Tech
Products



Pressure Sensitive
Tapes



Sealant Tapes



Vacuum Valves &
Hoses



What's New for Glass Lamination in Autumn 2020

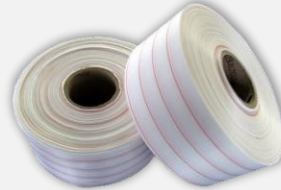
Airseal 2T Vacuum bag sealant tape

Airseal 2T is a cost effective vacuum bag sealant tape for room and medium temperature applications. Airseal 2T has excellent tack, firm feel, good clean-up and long shelf life.



Econostitch® Release fabric / peel ply

Econostitch® is a heat set and scoured nylon peel ply with red tracers which make this peel ply more visible before and after a cure, reducing the possibility of being left on the part.



EconoTape 1 Low cost tape

EconoTape 1 is an inexpensive, multipurpose, silicone based adhesive, pressure sensitive tape. This tape can be used for holding down vacuum bagging materials, thermocouples, and other lay-up items.



Flashbreaker® 1 Cut strips with pull tab

Flashbreaker® tapes are high strength polyester films coated with a silicone adhesive available as precision cut strips of tape on a liner, available 1" x 2". Flashbreaker®1 is on poly liner with "pull-tabs".



GlasTech N10ES Breather/ Release fabric Combo

Combo-Tech technology from Airtech combines materials for great labour savings during layup process. GlasTech N10ES combines heavy weight Airweave® N10 breather with the Econostitch® release fabric.



GlasTech N4ES Breather/ Release fabric Combo

GlasTech N4ES combines Airweave® N4 breather with the Econostitch® release fabric using Combo-Tech technology from Airtech. Combination of products are applied in one operation as opposed to applying one layer at a time.



Vac-Gauge 40D Digital Vacuum Gauge

Vac-Gauge 40D is a versatile digital vacuum gauge used for leak detection and vacuum determinations under your vacuum bag. The digital gauge offers vacuum readings in four selectable units: mBar, mmHg, inHg, and KPa.



Airflow 65R All purpose hose

Airflow 65R can be used as an autoclave or oven hose. The outer ply is silicone rubber that encases a flexible steel tube that prevents collapse and hose separation. The bell-shaped ferrule helps hose lacerations at fitting ends extending hose life.



Vacuum bagging films



The vacuum bag has the ability to evenly apply pressure all over the glass laminate.



Vacuum bag film can be supplied in the Lay flat tubing (LFT) or sheeting form to suite production preferences.

Airtech manufactured vacuum bag films made for glass lamination

Wrightlon® 7400 - 0,002" Lay-Flat Tubing

| Maximum Use Temperature | Elongation | Tensile Strength | Roll Sizes (Inches) | Roll Sizes (Metric) |
|---|------------|------------------|---------------------------|--------------------------|
| 204°C | 400% | 55 MPa | 0,002" x 36" LFT x 1000ft | 50 µm x 914mm LFT x 304m |
| Description | | | 0,002" x 48" LFT x 1000ft | 50 µm x 1,22m LFT x 304m |
| <p>Wrightlon® 7400 is a high temperature nylon film with high elongation which is suitable for laminating processes up to 204°C. Wrightlon® 7400 has been a reliable, economic choice for the glass industry consistently since its introduction.</p> | | | 0,002" x 54" LFT x 1000ft | 50 µm x 1,37m LFT x 304m |
| | | | 0,002" x 60" LFT x 1000ft | 50 µm x 1,52m LFT x 304m |
| | | | 0,002" x 72" LFT x 750ft | 50 µm x 1,83m LFT x 228m |
| | | | 0,002" x 80" LFT x 750ft | 50 µm x 2,03m LFT x 228m |
| | | | 0,002" x 90" LFT x 750ft | 50 µm x 2,28m LFT x 228m |
| | | | 0,002" x 120" LFT x 500ft | 50 µm x 3,05m LFT x 152m |
| | | | 0,002" x 140" LFT x 500ft | 50 µm x 3,56m LFT x 152m |



Wrightlon® 7400 - 0,003" Lay-Flat Tubing

Industry Standard

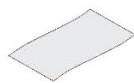
| Maximum Use Temperature | Elongation | Tensile Strength | Roll Sizes (Inches) | Roll Sizes (Metric) |
|---|------------|------------------|---------------------------|--------------------------|
| 204°C | 400% | 55 MPa | 0,003" x 36" LFT x 750ft | 75 µm x 914mm LFT x 228m |
| Description | | | 0,003" x 48" LFT x 750ft | 75 µm x 1,22m LFT x 228m |
| <p>Wrightlon® 7400 is a high temperature nylon film with high elongation which is suitable for laminating processes up to 204°C. Wrightlon® 7400 has been a reliable, economic choice for the glass industry consistently since its introduction. The thicker 0,003" grade provides more strength and robustness.</p> | | | 0,003" x 54" LFT x 750ft | 75 µm x 1,37m LFT x 228m |
| | | | 0,003" x 60" LFT x 600ft | 75 µm x 1,52m LFT x 182m |
| | | | 0,003" x 72" LFT x 500ft | 75 µm x 1,83m LFT x 152m |
| | | | 0,003" x 80" LFT x 500ft | 75 µm x 2,03m LFT x 152m |
| | | | 0,003" x 90" LFT x 500ft | 75 µm x 2,28m LFT x 152m |
| | | | 0,003" x 120" LFT x 500ft | 75 µm x 3,05m LFT x 152m |
| | | | 0,003" x 140" LFT x 500ft | 75 µm x 3,56m LFT x 152m |



Ipplon® KM1300 - 0,003" Lay-Flat Tubing

Moisture-Lok for Softness

| Maximum Use Temperature | Elongation | Tensile Strength | Roll Sizes (Inches) | Roll Sizes (Metric) |
|---|------------|------------------|---------------------------|--------------------------|
| 212°C | 450% | 48 MPa | 0,003" x 48" LFT x 750ft | 75 µm x 1,22m LFT x 228m |
| Description | | | 0,003" x 60" CF x 500ft | 75 µm x 1,52m LFT x 152m |
| <p>Ipplon® KM1300 vacuum bagging film has Moisture-Lok for better softness, greater elongation and is suitable for laminating temperatures up to 212°C.</p> | | | 0,003" x 72" LFT x 500ft | 75 µm x 1,83m LFT x 152m |
| | | | 0,003" x 80" LFT x 500ft | 75 µm x 2,03m LFT x 152m |
| | | | 0,003" x 90" LFT x 500ft | 75 µm x 2,28m LFT x 152m |
| | | | 0,003" x 120" LFT x 400ft | 75 µm x 3,05m LFT x 122m |
| | | | 0,003" x 140" LFT x 335ft | 75 µm x 3,56m LFT x 102m |



*SHT=Sheeting



CF=Centerfold



LFT=Lay-Flat Tubing

NOTES:

- Other products are available, please visit www.airtech.lu for full product selection.
- Other sizes and forms (e.g. Centerfold CF, Sheetting SHT) are available please contact your Airtech customer service representative for complete details.

Breather & Bleeder

Non-woven fabrics for edge protection

Airweave® N4 Light weight breather

| Maximum Use Temperature | Fibre Type | Weight | Roll Sizes (Inches) | Roll Sizes (Metric) |
|--|------------|----------------------|---------------------|---------------------|
| 204°C | Polyester | 140 g/m ² | | |
| Description | | | 3" x 109 yards | 75mm x 100m |
| Airweave® N4 is a light weight breather that provides good edge protection. It can be supplied in 1,52m wide master rolls or in slit widths. | | | 4" x 109 yards | 100mm x 100m |
| Note: Slit widths can be supplied subject to a minimum order equivalent to one full master roll. | | | 6" x 109 yards | 150mm x 100m |
| | | | 60" x 109 yards | 1,52m x 100m |



Airweave® N10 Heavy weight breather

Workshop Essential

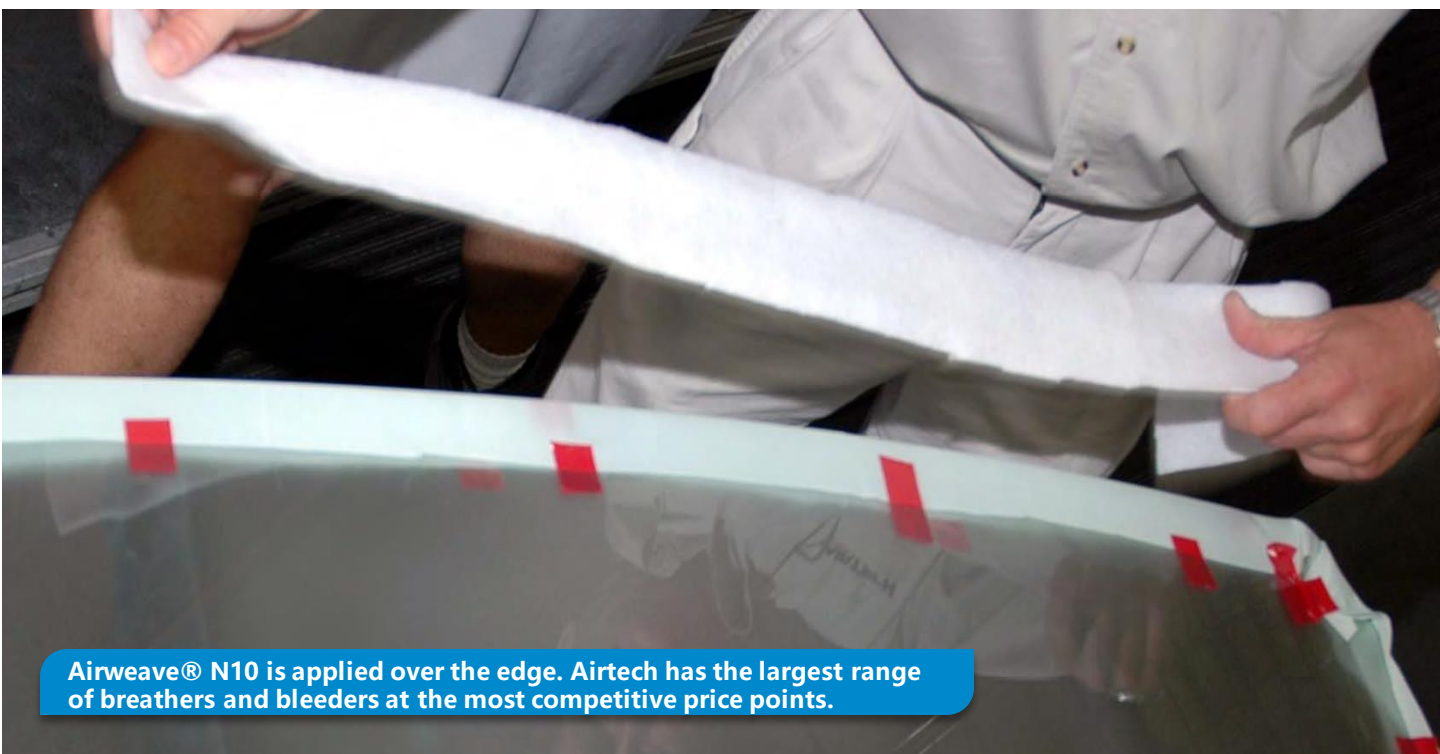
| Maximum Use Temperature | Fibre Type | Weight | Roll Sizes (Inches) | Roll Sizes (Metric) |
|---|------------|----------------------|---------------------|---------------------|
| 204°C | Polyester | 339 g/m ² | | |
| Description | | | 3" x 55 yards | 75mm x 50m |
| Airweave® N10 is a heavy weight breather that provides excellent edge protection and vacuum distribution. Its heavier construction will protect glass edges and vacuum bag films from damage on sharp edges. It can be supplied in 1,52m wide master rolls or in slit widths. | | | 4" x 55 yards | 100mm x 50m |
| Note: Slit widths can be supplied subject to a minimum order equivalent to one full master roll. | | | 6" x 55 yards | 150mm x 50m |
| | | | 60" x 55 yards | 1,52m x 50m |



Airstrip PM

| Maximum Use Temperature | Fibre Type | Inner | Roll Sizes (Inches) | Roll Sizes (Metric) |
|-------------------------|------------|------------|---------------------|---------------------|
| 204°C | Polyester | Metal mesh | | |
| Description | | | 2" x 33 yards | 50mm x 30,5m |

Airstrip PM is a reusable edge breather made with Release Ply Super F and reinforced with a metal mesh that conducts airflow at pressures exceeding 14 bars. Airstrip PM will operate continuously up to 204°C.



Airweave® N10 is applied over the edge. Airtech has the largest range of breathers and bleeders at the most competitive price points.

Release fabrics & Peel ply

Fabrics to absorb excess adhesive

Econostitch®

Low Cost Fabric

| Maximum Use Temperature | Fibre Type | Weight | Colour | Roll Sizes (Inches) | Roll Sizes (Metric) |
|-------------------------|------------|---------------------|--------------------|---------------------|---------------------|
| 190°C | Nylon | 88 g/m ² | White / Red Tracer | 2" x 218 yards | 50mm x 200m |
| Description | | | | 4" x 100 yards | 100mm x 91m |
| | | | | 6" x 100 yards | 150mm x 91m |
| | | | | 60" x 100 yards | 1,52m x 91m |
| | | | | 60" x 300 yards | 1,52m x 274m |

Econostitch® is a clean, good quality, economical nylon peel ply with red tracers which make this peel ply more visible. Our Econo peel plies are designed to absorb excess adhesive and remove cleanly after laminating.

Note: Slit width sizes are available but may be subject to minimum order quantity and lead time, please contact for details.



Econostitch® G

| Maximum Use Temperature | Fibre Type | Weight | Colour | Roll Sizes (Inches) | Roll Sizes (Metric) |
|-------------------------|------------|---------------------|----------------------|---------------------|---------------------|
| 190°C | Polyester | 85 g/m ² | White / Black Tracer | 2" x 218 yards | 50mm x 200m |
| Description | | | | 4" x 218 yards | 100mm x 200m |
| | | | | 6" x 218 yards | 150mm x 200m |
| | | | | 71" x 218 yards | 1,80m x 200m |

Econostitch® G is a clean, good quality, economical polyester peel ply. It has black tracers with high visibility. Econostitch® G will absorb excess adhesive and remove cleanly after laminating.

Note: Slit width sizes are available but may be subject to minimum order quantity and lead time, please contact for details.



Econolease

| Maximum Use Temperature | Fibre Type | Weight | Colour | Roll Sizes (Inches) | Roll Sizes (Metric) |
|-------------------------|------------|---------------------|------------|---------------------|---------------------|
| 204°C | Nylon | 61 g/m ² | Light blue | | |
| Description | | | | 60" x 100 yards | 1,52m x 91m |

Econolease is a silicone treated nylon peel ply which can be removed much more easily after laminating. Econolease will absorb excess adhesive and remove cleanly after laminating.



Release Ply F

Workshop Essential

| Maximum Use Temperature | Fibre Type | Weight | Colour | Roll Sizes (Inches) | Roll Sizes (Metric) |
|-------------------------|------------|---------------------|--------|---------------------|---------------------|
| 204°C | Polyester | 95 g/m ² | White | 2" x 218 yards | 50mm x 200m |
| Description | | | | 4" x 218 yards | 100mm x 200m |
| | | | | 6" x 218 yards | 150mm x 200m |
| | | | | 60" x 218 yards | 1,52m x 200m |

Release Ply F provides superior strength. Release Ply F is a polyester peel ply, that will absorb excess resin, protect edges and remove cleanly after laminating. The fabric is scoured and heat set to remove contaminants and reduce shrinkage.

Note: Slit width sizes are available but may be subject to minimum order quantity and lead time, please contact for details.



Econolease being hand cut to cover the periphery of the glass edge.

Combo-Tech

Combo-Tech combination of Peel ply / Release film / Breather

How to Combo-Tech

1. Choose your materials, include detail such as, e.g. Product type, weight, thickness, colour, etc.

2. Choose your Combo-Tech

- Roll up orientation (which material is on outside, middle and inside).
- Edge style (untrimmed, trimmed, staggered).
- Roll width and preferred length (these will be based on standard sizes of individual rolls to minimize waste).

3. Contact Airtech

- With your request and we will provide a quote with lead time and minimum order quantity that will apply.

Benefits

- 50% reduction in time to lay-up by applying one layer instead of two
 - Reduce touch labour.
 - Reduce cycle times.
- Reduce material cost
 - Less waste.
 - Less packaging.
- Improve quality
 - Reduce cost of rework.
 - Reduce cost of scrap.

Combination materials for glass lamination applications

GlasTech N10RPF

Industry Standard Combination

| Maximum Use Temperature | Breather Type | Release Type | Roll Sizes (Inches) | Roll Sizes (Metric) |
|--|---------------|---------------|---------------------|---------------------|
| 204°C | Airweave® N10 | Release Ply F | 3" x 50 yards | 75mm x 45m |
| Description | | | 4" x 50 yards | 100mm x 45m |
| GlasTech N10RPF combines heavy weight Airweave® N10 breather with the high strength Release Ply F. Great labour savings can be achieved by having combination of products applied in one operation as opposed to applying one layer at a time. | | | 6" x 50 yards | 150mm x 45m |
| | | | 60" x 50 yards | 1,52m x 45m |



GlasTech N4RPF

| Maximum Use Temperature | Breather Type | Release Type | Roll Sizes (Inches) | Roll Sizes (Metric) |
|---|---------------|---------------|---------------------|---------------------|
| 204°C | Airweave® N4 | Release Ply F | 3" x 50 yards | 75mm x 45m |
| Description | | | 4" x 50 yards | 100mm x 45m |
| GlasTech N4RPF combines light weight, economical Airweave® N4 breather with the high strength Release Ply F using Combo-Tech technology from Airtech. Great labour savings and cycle time reductions can be achieved by having combination of products applied in one operation as opposed to applying one layer at a time. | | | 6" x 50 yards | 150mm x 45m |
| | | | 60" x 50 yards | 1,52m x 45m |



GlasTech N10ES

| Maximum Use Temperature | Breather Type | Release Type | Roll Sizes (Inches) | Roll Sizes (Metric) |
|---|---------------|--------------|---------------------|---------------------|
| 190°C | Airweave® N10 | Econostitch® | 3" x 50 yards | 75mm x 45m |
| Description | | | 4" x 50 yards | 100mm x 45m |
| GlasTech N10ES combines heavyweight Airweave® N10 breather with the economical Econostitch® release fabric. Great labour savings can be achieved by having combination of products applied in one operation as opposed to applying one layer at a time. | | | 6" x 50 yards | 150mm x 45m |
| | | | 60" x 50 yards | 1,52m x 45m |



GlasTech N4ES

Low Cost Combination

| Maximum Use Temperature | Breather Type | Release Type | Roll Sizes (Inches) | Roll Sizes (Metric) |
|--|---------------|--------------|---------------------|---------------------|
| 190°C | Airweave® N4 | Econostitch® | 3" x 50 yards | 75mm x 45m |
| Description | | | 4" x 50 yards | 100mm x 45m |
| GlasTech N4ES combines Airweave® N4 breather with the Econostitch® release fabric using Combo-Tech technology from Airtech. This low cost edge protector also provides great labour savings and reduction in cycle time can be achieved by having combination of products applied in one operation as opposed to applying one layer at a time. | | | 6" x 50 yards | 150mm x 45m |
| | | | 60" x 50 yards | 1,52m x 45m |



Pressure sensitive tapes

Part is ready for installation of the Vacuum Bag. Airtech tapes hold and fix materials without affecting performance.



Overlapping tape helps minimize surface contact on glass

Tapes for holding, fixing, masking, releasing and protecting

EconoTape 1

Low Cost Tape

| Maximum Use Temperature | Carrier Type | Adhesive Type | Colour | Roll Sizes (Inches) | Roll Sizes (Metric) |
|-------------------------|--------------|---------------|--------|---------------------|---------------------|
| 177°C | Polyester | Silicone | Green | 1" x 72 yards | 25mm x 66m |
| Description | | | | 2" x 72 yards | 50mm x 66m |

EconoTape 1 is an inexpensive, multipurpose, silicone based adhesive, pressure sensitive tape. This tape can be used for holding down vacuum bagging materials, thermocouples, and other lay-up items. EconoTape 1 can be used for room temperature to 177°C applications.

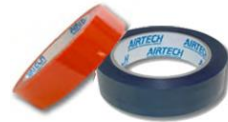


Flashbreaker® 1

Industry Standard

| Maximum Use Temperature | Carrier Type | Adhesive Type | Colour | Roll Sizes (Inches) | Roll Sizes (Metric) |
|-------------------------|--------------|---------------|---------------|---------------------|---------------------|
| 204°C | Polyester | Silicone | Blue / Orange | 1" x 72 yards | 25mm x 66m |
| Description | | | | 2" x 72 yards | 50mm x 66m |

Flashbreaker® tapes are high strength polyester films coated with a silicone adhesive for cures up to 204°C. Flashbreaker® pressure sensitive tapes are used for multi-purpose functions such as holding down vacuum bagging materials. Flashbreaker® tapes remove easily after cure.



Flashbreaker® 1 Cut strips with pull tab

Big Time Saver

| Maximum Use Temperature | Carrier Type | Adhesive Type | Colour | Roll Sizes (Inches) | Roll Sizes (Metric) |
|-------------------------|--------------|---------------|---------------|---------------------|---------------------|
| 204°C | Polyester | Silicone | Blue / Orange | 1" x 72 yards | 25mm x 66m |
| Description | | | | 2" x 72 yards | 50mm x 66m |

Precision cut strips of tape on a liner, available in 1" x 2". Flashbreaker®1 is on poly liner with "pull-tabs".



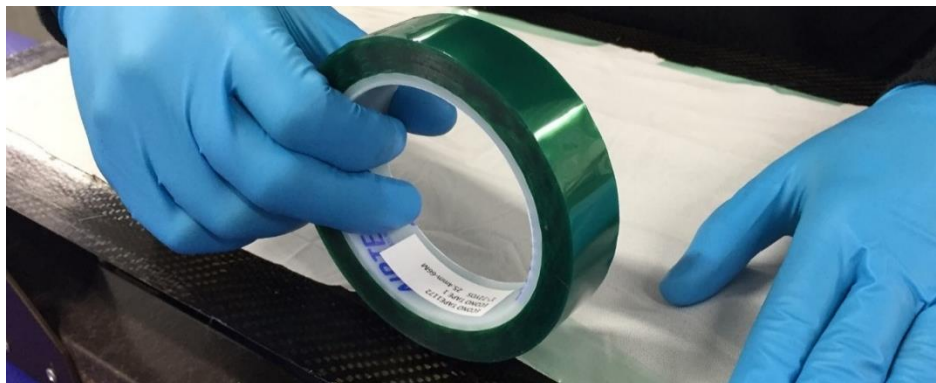
Flashbreaker® 2R (HT)

| Maximum Use Temperature | Carrier Type | Adhesive Type | Colour | Roll Sizes (Inches) | Roll Sizes (Metric) |
|-------------------------|--------------|------------------|--------|---------------------|---------------------|
| 204°C | Polyester | High tack rubber | Red | 1" x 36 yards | 25mm x 33m |
| Description | | | | 2" x 36 yards | 50mm x 33m |

Flashbreaker® 2R (HT) is a polyester pressure sensitive tape coated with a high tack, non-silicone adhesive. This tape holds down vacuum bagging materials and thermocouple wires on metal or composite parts and tooling. Flashbreaker® 2R (HT) is a superior tape for holding down non-woven breather materials. Flashbreaker® 2R (HT) has high temperature capabilities, making it a good choice for oven or autoclave cures to 204°C.



- Other products are available, please visit www.airtech.lu for full product selection.
- Other sizes are available on special order, please contact your Airtech customer service representative for complete details.



Vacuum bag sealant tapes



Tapes for airtight sealing of vacuum bags

AS1

New Low Cost Tape

| Maximum Use Temperature | Colour | Base Material | Tack Level | Roll Sizes |
|-------------------------|--------|------------------|------------|------------------|
| 120°C | Black | Synthetic rubber | Good tack | 3mm x 12mm x 15m |
| Description | | | | |

AS1 is an economical multi-purpose sealant tape with high tack. Suitable for laminating applications up to 120°C.



Airseal 2T

Workshop Essential

| Maximum Use Temperature | Colour | Base Material | Tack Level | Roll Sizes |
|-------------------------|--------|------------------|------------|--|
| 180°C bag to bag | Black | Synthetic rubber | High tack | 3mm x 12mm x 15m 3mm x 9mm x 15m 2mm x 10mm x 20m 2mm x 7mm x 20m |
| Description | | | | |

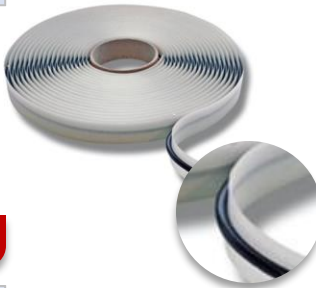
Airseal 2T is a cost effective vacuum bag sealant tape for room and medium temperature applications. Airseal 2T has excellent tack, firm feel, good clean-up and long shelf life. Airseal 2 Tacky has superior tack for colder environments.



Airseal 2T Bead

| Maximum Use Temperature | Colour | Base Material | Tack Level | Roll Sizes |
|-------------------------|--------|------------------|------------|-------------------|
| 180°C bag to bag | Black | Synthetic rubber | High tack | Ø 4mm bead x 7,5m |
| Description | | | | |

Airseal 2T Bead is a cost effective vacuum bag sealant tape for room and medium temperature applications. Airseal 2T Bead has excellent tack and long shelf life. Airseal 2T Bead has superior tack for colder environments.



AT-200Y

Industry Standard Tape

| Maximum Use Temperature | Colour | Base Material | Tack Level | Roll Sizes |
|-------------------------|--------|------------------|------------|-------------------|
| 204°C | Yellow | Synthetic rubber | High tack | 3mm x 12mm x 7,6m |
| Description | | | | |

AT-200Y is an economical multi-purpose sealant tape with high tack. It is suitable for laminating applications up to 204°C.



GS-213

| Maximum Use Temperature | Colour | Base Material | Tack Level | Roll Sizes |
|-------------------------|-----------|------------------|------------|--|
| 204°C | Off-white | Synthetic rubber | Good tack | 3mm x 12mm x 7,6m 3mm x 19mm x 7,6m |
| Description | | | | |

GS-213 has excellent tack and is usable up to 204°C. GS213 has a long proven track record of reliable performance for laminating applications and is one of the easiest tapes to use for vacuum bag applications.



Vacuum valves & hoses

Vacuum hose is connected to the vacuum bag with a vacuum valve via quick disconnect fittings



Vac Valve 401C

| Maximum Use Temperature | Material | Size |
|-------------------------|----------------|--|
| 260°C | Cast aluminium | |
| Description | | Ø 63 mm Base Diameter 1/4" Male NPT |

Vac Valve 401 series is a twist lock thru bag connector designed to work with our AQD 500TF quick disconnects. In combination with our AQD 500 quick disconnects, these vac valves have been used successfully at major aircraft companies holding full vacuum and pressure up to 15 bars at temperatures up to 260°C.



Premium Multi-Valve 407

Leak Free Longest Life

| Maximum Use Temperature | Material | Size |
|-------------------------|-----------------|-----------------------------------|
| 260°C | Stainless steel | |
| Description | | Ø 60 mm Base Diameter 1/4 inch |

The solid body design of the Premium Multi-Valve 407 combines the male quick disconnect and thru-bag connector, eliminating threaded connections and potential leak paths. Robust stainless steel construction ensures corrosion resistance and long life. High temperature O-ring and platinum cured silicone gasket give a long service. It is fully compatible with 3/4" ISO-B "Hansen" style quick-disconnects. The valve mechanism and O-ring seals can easily be replaced to extend life.



Vac Valve 509

Best Low Cost Option

| Maximum Use Temperature | Material | Size |
|-------------------------|---|--------------|
| 260°C | Aluminium base plate & carbon steel top piece | |
| Description | | 1/4 inch NPT |

Vac Valve 509 is a 2 piece vacuum valves which perforate the bagging film when the top piece is inserted and threaded into the base plate. The specific design of the threaded connection eliminates the need to cut the bagging film prior to inserting the top piece.



AQD 500TF Quick Disconnect Plug & Socket

Clean Room Essential

| Maximum Use Temperature | Material | Size |
|-------------------------|--------------|--------------|
| 260°C | Carbon steel | |
| Description | | 1/4 inch NPT |

The AQD 500TF quick disconnect couplings are made of high carbon steel that have been plated to halt oxidation. The couplings have internal valves so when disconnected the airflow is shut off in both plug and socket. This means your vacuum bag holds vacuum even after the vacuum hose has been disconnected.



For workshop, oven & autoclave

Airflow 60R

Clean Room Essential

| Maximum Use Temperature | Material | Thread Size | Hose Length |
|-------------------------|-------------------------|-------------------|---------------------|
| 232°C | Silicone rubber / steel | 1/4 inch male NPT | |
| Description | | | Up to 10m (33 feet) |

Airflow 60R can be used as an autoclave or oven hose. The outer ply is silicone rubber over a flexible steel spiral. There are no wire braids to puncture the rubber jacket or the vacuum bag. The hose is supported by a flexible stainless steel spiral that prevents collapse under autoclave pressure. The bell shaped ferrule prevents hose lacerations at fitting ends extending hose life. Due to its unique construction Airflow 60R hose has the advantage that is easy to repair by replacing the damaged parts like the end fittings. For more information about Airflow 60R repair kit please contact your Airtech sales representative.



Airflow 65R

Best All-Rounder

| Maximum Use Temperature | Material | Thread Size | Hose Length |
|-------------------------|---|-------------------|----------------------|
| 232°C | Silicone rubber / Interlocking steel tube | 1/4 inch male NPT | |
| Description | | | Up to 30m (100 feet) |

Airflow 65R can be used as an autoclave or oven hose. The outer ply is silicone rubber that encases a flexible steel tube that prevents collapse and hose separation. The bell-shaped ferrule helps prevent hose lacerations at fitting ends extending hose life.

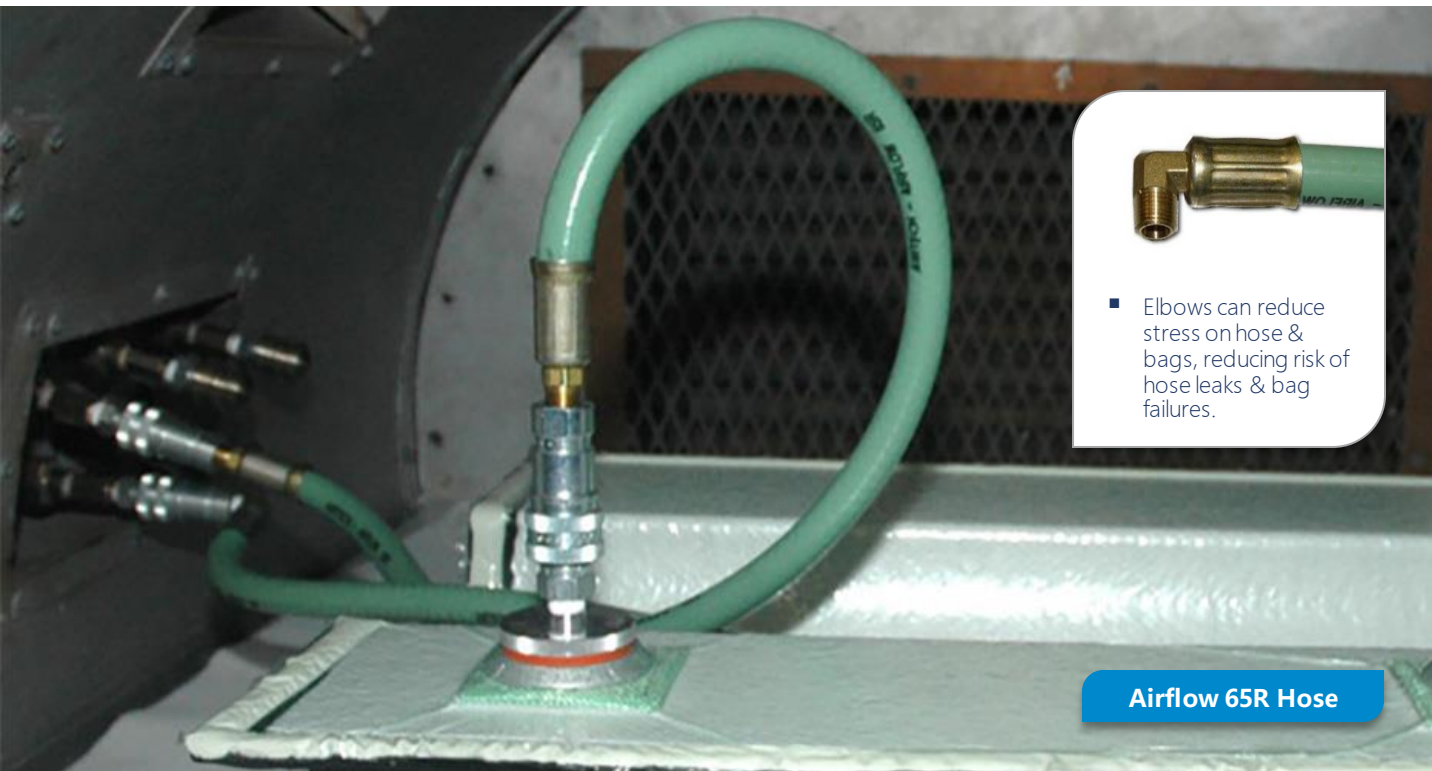
Note: Can be supplied assembled with AQD500TF sockets, or either straight or elbow fittings.



Airflow 100R

| Maximum Use Temperature | Material | Thread Size | Hose Length |
|-------------------------|-------------------------|-------------------|----------------------|
| 260°C | Silicone rubber / steel | 1/4 inch male NPT | |
| Description | | | Up to 30m (100 feet) |

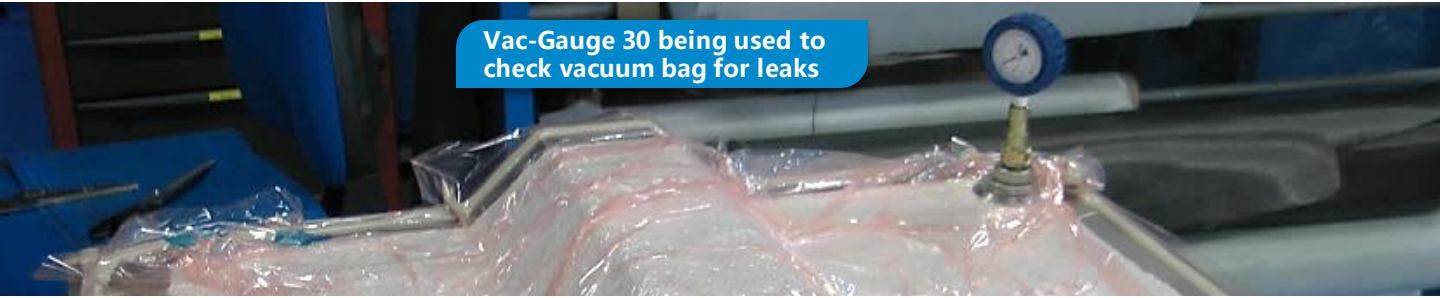
Airflow 100R is a durable high temperature and high pressure autoclave hose with the addition of a silicone rubber outer protective sleeve. The hose construction consists of a braided steel outer covering a PTFE inner tube supported with a flexible steel spring conduit. Its unique design prevents collapse from vacuum or autoclave pressures.



- Elbows can reduce stress on hose & bags, reducing risk of hose leaks & bag failures.

Airflow 65R Hose

Vacuum accessories



Vac-Gauge 30

Low Cost Gauge

| | | |
|----------------|-----------------------------|-------------------|
| Assembly Style | Range | Screw Thread |
| Screwed | 0 - 30 in. Hg (0 - 100 KPa) | 1/4 inch male NPT |
| Description | | |

Vac-Gauge 30 is our durable, inexpensive vacuum gauge to determine how much vacuum is under your vacuum bag. A heavy ridged blue rubber jacket protects the gauge from damage in normal shop use. The Vac-Gauge 30 stem is a 1/4 inch male NPT fitting that fits easily into our Airlock 450TF & 550TF and AQD quick disconnects.



Vac-Gauge 40D

| | | |
|----------------|-----------------------------|-------------------|
| Assembly Style | Range | Screw Thread |
| Screwed | 0 - 30 in. Hg (0 - 100 KPa) | 1/4 inch male NPT |
| Description | | |

Vac-Gauge 40D is a versatile digital vacuum gauge used for leak detection and vacuum determinations under your vacuum bag. The gauge offers vacuum readings in four selectable units: mBar, mmHg, inHg, and KPa. A heavy duty rubber jacket protects the gauge from damage in normal shop use. The Vac-Gauge 40D connection stem is a 1/4-18 inch NPT thread fitting that fits easily into our Airlock 450TF & 550TF and AQD quick disconnects.



Vac Saver HT One way check valve

| | | | |
|---------------------|--------------------|---------------------|-------------------|
| Service Temperature | Material Type | Material Type Seals | Screw Thread |
| 200°C | Anodized aluminium | Fluorocarbon | 1/4 inch male NPT |
| Description | | | |

Vac Saver HT is a one way check valve used to protect vacuum bagged parts against vacuum loss. Vac Saver HT protects against back pressure when multiple lines are connected to a single vacuum source. In case of a vacuum loss in a part which is connected to the same vacuum source, the Vac Saver HT closes automatically and protects parts against vacuum loss. Vac Saver HT can be used in combination with our quick disconnectors like AQD 500TF, Airlock 450TF or 550TF and our Airflow vacuum hoses.



VacLeak LEQ-70 Ultra-sonic leak detector

| | | |
|--------------------|--|-----------------------|
| Frequency Response | Equipment Components | Display |
| 38-42 kHz | Receiver, headphones, hollow probe and carrying case | Ten element bar graph |
| Description | | |

The latest VacLeak LEQ-70 Series 3 is a compact economical vacuum leak detector for finding leaks in vacuum bags, sealant tapes, hoses and fittings. The VacLeak LEQ-70 Series 3 has improved circuitry for 20% more sensitivity to convert the ultrasonic sound produced by leaks to an audible level and also visually display the leak on an LED meter. With clearer sound detect leaks faster than ever before.



For workshop, oven & autoclave

Shop Shears

Cuts Glass, Carbon & Aramid

| Description | Type | Product Reference | Length | Weight |
|---|-----------------|-------------------|-------------|--------|
| Shop shears are lightweight and stronger than most all metal shears. The Shop shears have larger handles to reduce stress and thicker blades for heavy duty cutting. Shop shears are one of the hardest and smoothest cutting shears available, with approx. 60 HRC, hardened throughout. | Straight shears | SS-7205-8 | 20 cm / 8" | 150 g |
| | Straight shears | SS-7230-9 | 23 cm / 9" | 170 g |
| | Straight shears | SS-7250-10 | 25 cm / 10" | 210 g |
| | Straight shears | SS-7280-11 | 28 cm / 11" | 248 g |
| | Straight shears | SS-7300-12 | 31 cm / 12" | 306 g |



Electric Cordless Scissors

| Type | Length | Weight | Voltage | Set Components | Purpose |
|--|---------|--------|-----------------------------------|-----------------|-----------------------------|
| Electric Shears | 18,5 cm | 220 g | 110 v / 220 v | Scissors body | |
| Description The electric scissors are excellent for cutting any kind of films, light weight fabrics including fibreglass, carbon and aramid fabrics. Its ergonomic design and light weight make its use very easy and safe. The short rapid blade action allows intricate and precise cuts. Micro-serrated blades are made of tungsten carbide providing their extra long life. Not recommended for material over 2 mm thick due to short stroke. It operates on long-lasting rechargeable battery or AC. | | | All purpose short blades assembly | | For accurate curve cutting |
| | | | Blades assembly with base plate | | For stable straight cutting |
| | | | Transformer | | |
| | | | Rechargeable battery | | |
| | | | | Battery charger | |
| | | | | AC adapter | |



Airsweep

Clean Room Essential

| Description | Material | Product Reference | Colour | Length |
|---|----------|---------------------------|--------|--------|
| Airsweep are laminating tools for positioning of vacuum bag materials into corner features and applying pressure to vacuum bag sealant tapes. | HDPE | Airsweep | White | 10cm |
| | UHMW PE | Airsweep R2 (with handle) | White | 11,5cm |
| | Nylon | Airsweep R3 (with handle) | Black | 11,5cm |



Vac Valve Pad A241 MFD & A22C

| Thickness | Fibre Type | Sizes (Inches) | Sizes (Metric) |
|---|------------------------|----------------|---------------------|
| 6,35 mm | Multi-layer fibreglass | | |
| Description A241MFD is a multi-layer fibreglass vac valve pad with a wire mesh to prevent airflow seal off. A22C vac valve pad is a multi-layer fibreglass construction to prevent seal off. | | 2" x 2" | 5,08 cm x 5,08 cm |
| | | 3" x 3" | 7,62 cm x 7,62 cm |
| | | 4" x 4" | 10,16 cm x 10,16 cm |



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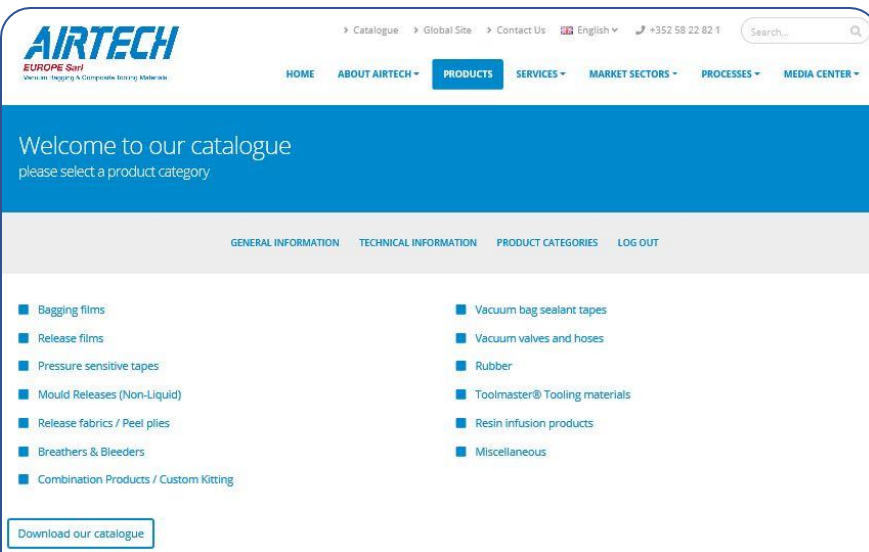
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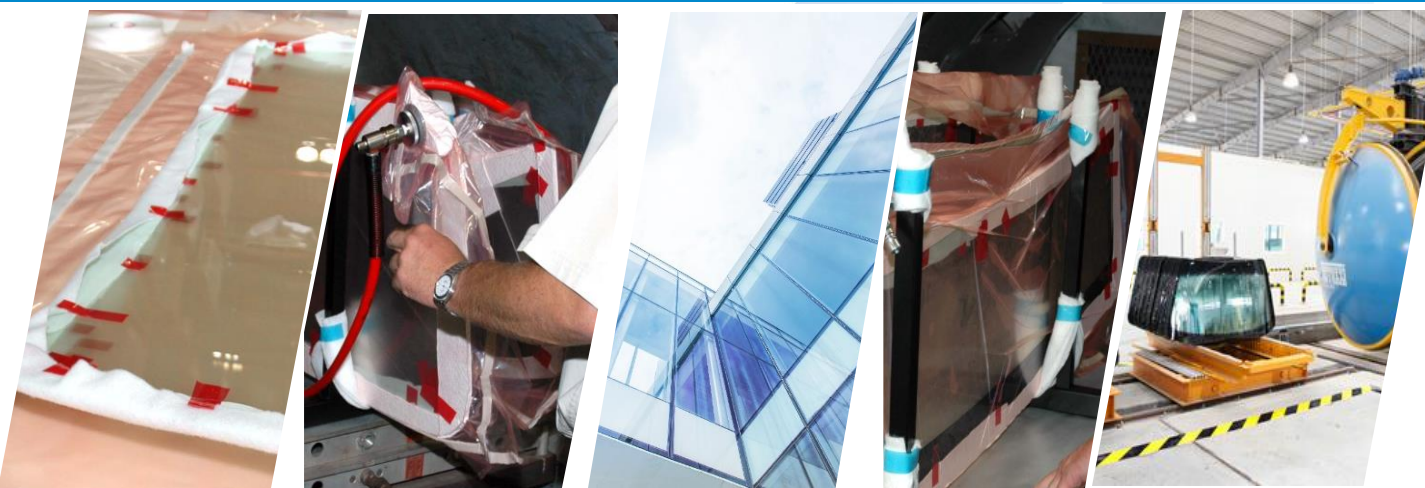


Need more Information, a Quote or a Sample ?

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About Airtech Europe

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- Airtech Europe is a division of Airtech Advanced Materials Group, the largest manufacturer of vacuum bagging and composite tooling materials for prepreg / autoclave, resin infusion, and wet lay-up processes up to 426°C. Our product line consists of: vacuum bagging films, release films, pressure sensitive tapes, mould releases (non-liquid), peel plies, breathers & bleeders, sealant tapes, vacuum bag connectors & hoses, rubber, pressure pads, cutting tools, vacuum leak detectors, shrink tape, PTFE coated fibreglass, tooling prepregs and resins, and carbon and glass reinforcements.
- With nearly 50 years of extrusion experience, we've taken the next step into additive manufacturing. [Print-Tech®](#) is our new large scale additive manufacturing or 3D printing tooling service for composites. Large scale tooling in the form of trim fixtures, holding fixtures, and layup moulds can be designed, tooled, and built faster without compromise quality. Also, we manufacture a full line of [Dahltram®](#) tooling and [Dahlpram®](#) purging resins.
- Airtech Advanced Materials Group is family owned. We have six locations strategically placed worldwide: Huntington Beach, California, USA; Chino, California, USA; Springfield, Tennessee, USA; Differdange, Luxembourg; and Tianjin, China. All of our facilities offer technical assistance and are ready to meet your composite production challenges.
- Airtech Europe is EN 9100:2018, ISO 9001:2015 and ISO 14001:2015 certified.

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