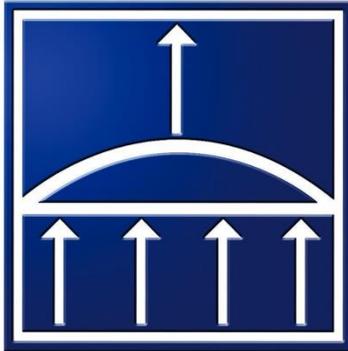


AIRTECH

INTERNATIONAL INC.

Breathers & Bleeders

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COMPLETE FACTORY SET-UP TURNKEY SOLUTIONS

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Section Guide

BREATHERS & BLEEDERS

Name	Description	Maximum use temperature	Weight	Page
Airweave® A	Bleeder / breather	400°F (204°C)	1.6 oz / yd ² (54 g / m ²)	1
Airweave® S	Very light weight non-woven polyester breather / bleeder	400°F (204°C)	3 oz / yd ² (102 g / m ²)	2
Airweave® SSFR	Very light weight non-woven polyester breather / bleeder	400°F (204°C)	4 oz / yd ² (135 g / m ²)	3
Airweave® N4	Medium weight non-woven polyester breather / bleeder	400°F (204°C)	4 oz / yd ² (140 g / m ²)	4
Airweave® N4 FR	Medium weight non-woven polyester breather / bleeder	400°F (204°C)	4 oz / yd ² (140 g / m ²)	5
Airweave® N7	Medium weight non-woven polyester breather / bleeder	400°F (204°C)	7 oz / yd ² (237 g / m ²)	6
Airweave® N7 FR	Medium weight non-woven polyester breather / bleeder	400°F (204°C)	7 oz / yd ² (237 g / m ²)	7
Airweave® N10	Heavy weight non-woven polyester breather / bleeder	400°F (204°C)	10 oz / yd ² (339 g / m ²)	8
Airweave® N10 FR	Heavy weight non-woven polyester breather / bleeder	400°F (204°C)	10 oz / yd ² (339 g / m ²)	9
Airweave® Super 10	Heavy weight polyester breather with superior airflow	400°F (204°C)	10 oz / yd ² (339 g / m ²)	10
Airweave® Super 10 FR	Heavy weight polyester breather with superior airflow	400°F (204°C)	10 oz / yd ² (339 g / m ²)	11
Airweave® Super 18	Very heavy weight non-woven polyester breather / bleeder	400°F (204°C)	18 oz / yd ² (610 g / m ²)	12
Airweave® Super 18 FR	Very heavy weight non-woven polyester breather / bleeder	400°F (204°C)	18 oz / yd ² (610 g / m ²)	13
Ultraweave® 406	Light weight non-woven nylon breather and bleeder	450°F (232°C)	4 oz / yd ² (135 g / m ²)	14
Ultraweave® 606	Medium weight nylon breather / bleeder	450°F (232°C)	6 oz / yd ² (204 g / m ²)	15
Ultraweave® 1032	Nylon non-woven breather / bleeder	450°F (232°C)	10 oz / yd ² (339 g / m ²)	16
Ultraweave® 1332	Heavy weight nylon breather / bleeder	450°F (232°C)	13 oz / yd ² (441 g / m ²)	17
Econoweave® 44	Medium weight inexpensive polyester breather / bleeder	375°F (190°C)	4 oz / yd ² (135 g / m ²)	18
Econoweave® 1010	Heavy weight inexpensive polyester breather / bleeder	375°F (190°C)	10 oz / yd ² (339 g / m ²)	19
Airweave® UHT 800	Non-woven ultra high temperature fiberglass breather	800°F (427°C)	18 oz / yd ² (610 g / m ²)	20
Airweave® UHT 300PGL	Light weight non-woven fiberglass breather for ultra high temperature	800°F (427°C)	8.8 oz / yd ² (300 g / m ²)	21
Airweave® UHT 450PGL	Medium weight non-woven fiberglass breather for ultra high temperature	800°F (427°C)	13 oz / yd ² (450 g / m ²)	22
Airsock BK 36	Breather for special applications	425°F (218°C)	5.23 oz / yd ² (177 g / m ²)	23

Catalog position : **Breathers & Bleeders**



Section Guide

BREATHERS & BLEEDERS

Name	Description	Maximum use temperature	Weight	Page
Stretch Flow 2000	Breather for special applications	450°F (232°C)	2.7 oz / yd ² (91.5 g / m ²)	24
Stretch Flow P 2000	Breather for special applications	450°F (232°C)	2.35 oz / yd ² (80 g / m ²)	25
Airpath MD	Expandable monofilament sleeving	400°F (204°C)		26
Airtech Breathers at 100 psi (7 bar)	-	-	-	27
Flashpac / Stretchlease®	-			28

Data Sheet

AIRWEAVE® A

Bleeder/breather

DESCRIPTION

Airweave® A is a "waffle" pattern bleeder used for resin absorption in high flow, wet lay-up applications. It can be used as a breather for compaction or debulk application.

BENEFITS

- Easy to use bleeder for resin bleed out applications.
- More even resin bleed out than fiberglass bleeders.
- Easy to use as breather for compactions and debulks.

TECHNICAL DATA

Fiber type	Synthetic
Color	White
Weight (approx.)	1.6 oz/yd ² (54 g/m ²)
Maximum use temperature	400°F (204°C)
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

SIZES

Width	Length	Packaging
62 inches (157 cm)	250 yards (229 m)	1 roll



NOTES

- Material can be slit in special widths upon request (1 standard roll as minimum order quantity).
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.

Last updated : 2019-02-04

Catalog position : **Breathers & Bleeders**

Data Sheet

AIRWEAVE® S

Very light weight non-woven polyester breather/bleeder

DESCRIPTION

Airweave® S is a thin breather with good elongation and can be used at pressures up to 29 psi (2 bars). It works as a bleeder under any pressure.

BENEFITS

- Very light weight for controlled resin bleed.
- Can stretch over simple shapes for easier application.
- Can be used for toolside breather applications.

TECHNICAL DATA

Fiber type	Polyester
Color	White
Weight (approx.)	3 oz/yd ² (102 g/m ²)
Maximum use temperature	400°F (204°C)
Fire retardant	N/A
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

SIZES

Width	Length	Packaging
56 inches (142 cm)	150 yards (137 m)	1 roll



NOTES

- Material can be slit in special widths upon request (1 standard roll as minimum order quantity).
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.

Last updated : 2019-02-04

Catalog position : **Breathers & Bleeders**



Data Sheet

AIRWEAVE® SSFR

Very light weight non-woven polyester breather/bleeder

■ DESCRIPTION

Airweave® SSFR is a thin breather with good elongation and can be used at pressures up to 29 psi (2 bars). It works as a bleeder under any pressure.

■ BENEFITS

- Very light weight for controlled resin bleed.
- Can stretch over simple shapes for easier application.
- Fire retardant version safeguards parts and equipment.

■ TECHNICAL DATA

Fiber type	Polyester
Color	White
Weight (approx.)	4 oz/yd ² (135 g/m ²)
Maximum use temperature	400°F (204°C)
Fire retardant	Yes
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

■ SIZES

Width	Length	Packaging
60 inches (152 cm)	100 yards (91 m)	1 roll

■ NOTES

- Material can be slit in special widths upon request (1 standard roll as minimum order quantity).
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.

Last updated : 2019-02-04

Catalog position : **Breathers & Bleeders**



Data Sheet

AIRWEAVE® N4

Medium weight non-woven polyester breather/bleeder

■ DESCRIPTION

Airweave® N4 is a good breather for low pressure cures. It conforms well and can be used as a bleeder at any pressure.

■ BENEFITS

- Good breather performance at low pressure, reducing trapped volatiles.
- Efficient bleeder at any pressure for controlled resin bleed.
- Available in regular or fire retardant version.

■ TECHNICAL DATA

Fiber type	Polyester
Color	White
Weight (approx.)	4 oz/yd ² (140 g/m ²)
Maximum use temperature	400°F (204°C)
Fire retardant	N/A
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

■ SIZES

Width	Length	Packaging
60 inches (152 cm)	100 yards (91 m)	1 roll
up to 180 inches (457 cm)	100 yards (91 m)	special order

■ NOTES

- Material can be slit in special widths upon request (1 standard roll as minimum order quantity).
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.
- A fire retardant version is available, see Airweave® N4 FR data sheet.
- Packaging is clear with black print.

Last updated : 2019-02-04

Catalog position : **Breathers & Bleeders**



Data Sheet

AIRWEAVE® N4 FR

Medium weight non-woven polyester breather/bleeder

DESCRIPTION

Airweave® N4 FR (Fire Retardant) is a good breather for low pressure cures. It conforms well and can be used as a bleeder at any pressure. Airweave® N4 FR is the fire retardant version of Airweave® N4.

BENEFITS

- Good breather performance at low pressure, reducing trapped volatiles.
- Efficient bleeder at any pressure for controlled resin bleed.
- Available in regular or fire retardant version.

TECHNICAL DATA

Fiber type	Polyester
Color	White
Weight (approx.)	4 oz/yd ² (140 g/m ²)
Maximum use temperature	400°F (204°C)
Fire retardant	Yes
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

SIZES

Width	Length	Packaging
60 inches (152 cm)	100 yards (91 m)	1 roll
up to 180 inches (457 cm)	100 yards (91 m)	special order

NOTES

- Material can be slit in special widths upon request (1 standard roll as minimum order quantity).
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.
- Airweave® N4 FR is the fire retardant version of Airweave® N4.
- Packaging is clear with black print.

Last updated : 2019-02-04

Catalog position : **Breathers & Bleeders**



Data Sheet

AIRWEAVE® N7

Medium weight non-woven polyester breather/bleeder

DESCRIPTION

Airweave® N7 is a medium weight breather which should be used when Airweave® N4 is not sufficient for airflow or when Airweave® N10 is too thick. Non-woven construction provides good conformity.

BENEFITS

- Easy to conform over shaped parts, saving time.
- Better breather performance, reducing trapped volatiles.
- Can be supplied slit to width or cut to shape for easier application.

TECHNICAL DATA

Fiber type	Polyester
Color	White
Weight (approx.)	7 oz/yd ² (237 g/m ²)
Maximum use temperature	400°F (204°C)
Fire retardant	N/A
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

SIZES

Width	Length	Packaging
60 inches (152 cm)	50 yards (45 m)	1 roll
up to 180 inches (457 cm)	50 yards (45 m)	special order

NOTES

- Material can be slit in special widths upon request (1 standard roll as minimum order quantity).
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.
- A fire retardant version is available, see Airweave® N7 FR data sheet.
- Packaging is clear with blue print.

Last updated : 2019-02-04

Catalog position : **Breathers & Bleeders**



Data Sheet

AIRWEAVE® N7 FR

Medium weight non-woven polyester breather/bleeder

DESCRIPTION

Airweave® N7 FR (Fire Retardant) is a medium weight breather which should be used when Airweave® N4 FR is not sufficient for airflow or Airweave® N10 FR is too thick. Non-woven construction provides good conformity. Airweave® N7 FR is the fire retardant version of Airweave® N7.

BENEFITS

- Easy to conform over shaped parts, saving time.
- Better breather performance, reducing trapped volatiles.
- Fire retardant version safeguards parts and equipment.

TECHNICAL DATA

Fiber type	Polyester
Color	White
Weight (approx.)	7 oz/yd ² (237 g/m ²)
Maximum use temperature	400°F (204°C)
Fire retardant	Yes
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

SIZES

Width	Length	Packaging
60 inches (152 cm)	50 yards (45 m)	1 roll
up to 180 inches (457 cm)	50 yards (45 m)	special order

NOTES

- Material can be slit in special widths upon request (1 standard roll as minimum order quantity).
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.
- Airweave® N7 FR is the fire retardant version of Airweave® N7.
- Packaging is clear with blue print.

Last updated : 2019-02-04

Catalog position : **Breathers & Bleeders**



Data Sheet

AIRWEAVE® N10

Heavy weight non-woven polyester breather/bleeder

DESCRIPTION

Airweave® N10 is used for higher pressure cures. This breather still offers good elongation and cushions any sharp radius for vacuum bag protection. Non-woven construction provides good conformity.

BENEFITS

- High pressure breather, reducing trapped volatiles in autoclave cures.
- Can protect vacuum bag from puncture by sharp tooling details.
- Fire retardant version safeguards parts and equipment.

TECHNICAL DATA

Fiber type	Polyester
Color	White
Weight (approx.)	10 oz/yd ² (339 g/m ²)
Maximum use temperature	400°F (204°C)
Fire retardant	N/A
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

SIZES

Width	Length	Packaging
60 inches (152 cm)	50 yards (45 m)	1 roll
up to 180 inches (457 cm)	50 yards (45 m)	special order

NOTES

- Material can be slit in special widths upon request (1 standard roll as minimum order quantity).
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.
- A fire retardant version is available, see Airweave® N10 FR data sheet.
- Packaging is clear with blue print.

Last updated : 2019-04-09

Catalog position : **Breathers & Bleeders**



Data Sheet

AIRWEAVE® N10 FR

Heavy weight non-woven polyester breather/bleeder

DESCRIPTION

Airweave® N10 FR (Fire Retardant) is used for higher pressure cures. This breather still offers good elongation and cushions any sharp radius for vacuum bag protection. Non-woven construction provides good conformity. Airweave® N10 FR is the fire retardant version of Airweave® N10.

BENEFITS

- High pressure breather, reducing trapped volatiles in autoclave cures.
- Can protect vacuum bag from puncture by sharp tooling details.
- Fire retardant version safeguards parts and equipment.

TECHNICAL DATA

Fiber type	Polyester
Color	White
Weight (approx.)	10 oz/yd ² (339 g/m ²)
Maximum use temperature	400°F (204°C)
Fire retardant	Yes
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

SIZES

Width	Length	Packaging
60 inches (152 cm)	50 yards (45 m)	1 roll
up to 180 inches (457 cm)	50 yards (45 m)	special order

NOTES

- Material can be slit in special widths upon request (1 standard roll as minimum order quantity).
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.
- Airweave® N10 FR is the fire retardant version of Airweave® N10.
- Packaging is clear with blue print.

Last updated : 2019-02-04

Catalog position : **Breathers & Bleeders**



Data Sheet

AIRWEAVE® SUPER 10

Heavy weight polyester breather with superior airflow

DESCRIPTION

Airweave® Super 10 is a high denier polyester fiber breather designed for high pressure cures in the autoclave. The higher denier allows for better airflow under temperature and pressure. Non-woven construction provides good conformity.

BENEFITS

- High airflow breather, reducing trapped volatiles in high pressure cures.
- Can protect vacuum bag from puncture by sharp tooling details.
- Can be supplied slit to width or cut to shape for easier application.

TECHNICAL DATA

Fiber type	Polyester
Color	White
Weight (approx.)	10 oz/yd ² (339 g/m ²)
Maximum use temperature	400°F (204°C)
Fire retardant	N/A
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

SIZES

Width	Length	Packaging
60 inches (152 cm)	50 yards (45 m)	1 roll
up to 180 inches (457 cm)	50 yards (45 m)	special order

NOTES

- Material can be slit in special widths upon request (1 standard roll as minimum order quantity).
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.
- A fire retardant version is available, see Airweave® Super 10 FR data sheet.
- Packaging is clear with blue print.

Last updated : 2019-02-04

Catalog position : **Breathers & Bleeders**



Data Sheet

AIRWEAVE® SUPER 10 FR

Heavy weight polyester breather with superior airflow

DESCRIPTION

Airweave® Super 10 FR (Fire Retardant) is a higher denier polyester fiber breather and is designed for high pressure cures in the autoclave. The higher denier allows for better airflow under temperature and pressure. Non-woven construction provides good conformity. Airweave® Super 10 FR is the fire retardant version of Airweave® Super 10.

BENEFITS

- High airflow breather, reducing trapped volatiles in high pressure cures.
- Maintains higher vacuum levels for better part quality.
- Fire retardant version safeguards parts and equipment.

TECHNICAL DATA

Fiber type	Polyester
Color	White
Weight (approx.)	10 oz/yd ² (339 g/m ²)
Maximum use temperature	400°F (204°C)
Fire retardant	Yes
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

SIZES

Width	Length	Packaging
60 inches (152 cm)	50 yards (45 m)	1 roll
up to 180 inches (457 cm)	50 yards (45 m)	special order

NOTES

- Material can be slit in special widths upon request (1 standard roll as minimum order quantity).
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.
- Airweave® Super 10 FR is the fire retardant version of Airweave® Super 10.

Last updated : 2019-02-04

Catalog position : **Breathers & Bleeders**



Data Sheet

AIRWEAVE® SUPER 18

Very heavy weight non-woven polyester breather/bleeder

DESCRIPTION

Airweave® Super 18 is a heavier version of Airweave® Super 10. It is ideal for very high pressures or where a sharp radius could puncture the vacuum bag. Non-woven construction provides good conformity.

BENEFITS

- Heavy weight breather for use in high pressure cures.
- Can protect vacuum bag from puncture by sharp tooling details.
- Can be supplied slit to width or cut to shape for easier application.

TECHNICAL DATA

Fiber type	Polyester
Color	White
Weight (approx.)	18 oz/yd ² (610 g/m ²)
Maximum use temperature	400°F (204°C)
Fire retardant	N/A
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

SIZES

Width	Length	Packaging
60 inches (152 cm)	25 yards (22 m)	1 roll
up to 180 inches (457 cm)	25 yards (22 m)	special order

NOTES

- Material can be slit in special widths upon request (1 standard roll as minimum order quantity).
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.
- A fire retardant version is available, see Airweave® Super 18 FR data sheet.
- Packaging is clear with blue print.

Last updated : 2019-02-04

Catalog position : **Breathers & Bleeders**



Data Sheet

AIRWEAVE® SUPER 18 FR

Very heavy weight non-woven polyester breather/bleeder

DESCRIPTION

Airweave® Super 18 FR (Fire Retardant) is a heavier version of Airweave® Super 10 FR. It is ideal for very high pressures or where a sharp radius could puncture the vacuum bag. Non-woven construction provides good conformity. Airweave® Super 18 FR is the fire retardant version of Airweave® Super 18.

BENEFITS

- Heavy weight breather for use in high pressure cures.
- Can protect vacuum bag from puncture by sharp tooling details.
- Maintains higher vacuum levels for better part quality.

TECHNICAL DATA

Fiber type	Polyester
Color	White
Weight (approx.)	18 oz/yd ² (610 g/m ²)
Maximum use temperature	400°F (204°C)
Fire retardant	Yes
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

SIZES

Width	Length	Packaging
60 inches (152 cm)	25 yards (22 m)	1 roll
up to 180 inches (457 cm)	25 yards (22 m)	special order

NOTES

- Material can be slit in special widths upon request (1 standard roll as minimum order quantity).
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.
- Airweave® Super 18 FR is the fire retardant version of Airweave® Super 18.
- Packaging is clear with blue print.

Last updated : 2019-02-04

Catalog position : **Breathers & Bleeders**



Data Sheet

ULTRAWEAVE® 406

Light weight non-woven nylon breather and bleeder

■ DESCRIPTION

All Ultraweave® products have a higher temperature softening point and will not compress like polyester allowing for increased airflow.

Ultraweave® 406 is the lightest, most conformable and least expensive nylon breather in the Ultraweave® family.

■ BENEFITS

- High temperature nylon fiber helps prevent vacuum lock-off.
- Better breather performance reduces trapped volatiles.
- Can be easily formed over complex shapes.

■ TECHNICAL DATA

Fiber type	Nylon 6,6
Color	White
Weight (approx.)	4 oz/yd ² (135 g/m ²)
Maximum use temperature	450°F (232°C)
Fire retardant	Yes
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

■ SIZES

Width	Length	Packaging
60 inches (152 cm)	50 yards (45 m)	1 roll
up to 180 inches (457 cm)	50 yards (45 m)	special order

■ NOTES

- Material can be slit in special widths upon request (1 standard roll as minimum order quantity).
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.
- Packaging is clear with red print.

Last updated : 2019-02-04

Catalog position : **Breathers & Bleeders**

Data Sheet

ULTRAWEAVE® 606

Medium weight nylon breather/bleeder

DESCRIPTION

All Ultraweave® products have a higher temperature softening point and will not compress like polyester allowing for increased airflow.

Ultraweave® 606 is a medium weight yet conformable breather which replaces most 340 g/m² polyester breathers, reducing back pressure and porosity problems.

BENEFITS

- High temperature nylon fiber helps prevent vacuum lock-off.
- Can replace Airweave® N10 polyester breather for autoclave cures.
- Can easily be formed over complex shapes without bridging.

TECHNICAL DATA

Fiber type	Nylon 6,6
Color	White
Weight (approx.)	6 oz/yd ² (204 g/m ²)
Maximum use temperature	450°F (232°C)
Fire retardant	Yes
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

SIZES

Width	Length	Packaging
60 inches (152 cm)	50 yards (45 m)	1 roll
up to 180 inches (457 cm)	50 yards (45 m)	special order



NOTES

- Material can be slit in special widths upon request (1 standard roll as minimum order quantity).
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.
- Packaging is clear with red print.
- Watch a demo video of Ultraweave® 606 in the "Media Center" on our website.

Last updated : 2019-02-04

Catalog position : **Breathers & Bleeders**



Data Sheet

ULTRAWEAVE® 1032

Nylon non-woven breather/bleeder

DESCRIPTION

All Ultraweave® products have a higher temperature softening point and will not compress like polyester allowing for increased airflow.

Ultraweave® 1032 is a heavy duty yet conformable breather which will work with most any autoclave cure and prevent trap off under the vacuum bag. This product eliminates the need for multiple layers of polyester breather.

BENEFITS

- High temperature nylon fiber helps prevent vacuum lock-off.
- Superior performance to polyester breather in autoclave.
- Maintains higher vacuum levels for better part quality.

TECHNICAL DATA

Fiber type	Nylon 6,6
Color	White
Weight (approx.)	10 oz/yd ² (339 g/m ²)
Maximum use temperature	450°F (232°C)
Fire retardant	Yes
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

SIZES

Width	Length	Packaging
60 inches (152 cm)	50 yards (45 m)	1 roll
up to 180 inches (457 cm)	50 yards (45 m)	special order

NOTES

- Material can be slit in special widths upon request (1 standard roll as minimum order quantity).
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.
- Packaging is clear with red print.

Last updated : 2019-02-04

Catalog position : **Breathers & Bleeders**



Data Sheet

ULTRAWEAVE® 1332

Heavy weight nylon breather/bleeder

DESCRIPTION

All Ultraweave® products have a higher temperature softening point and will not compress like polyester allowing for increased airflow.

Ultraweave® 1332 is the most reliable heavy duty breather made for high temperature and pressure autoclave cures. When slit, it can be used as an edge durable breather. This product eliminates the need for multiple layers of polyester breather.

BENEFITS

- High temperature nylon fiber helps prevent vacuum lock-off.
- Best breather performance in autoclave cycles.
- Maintains higher vacuum levels for better part quality.

TECHNICAL DATA

Fiber type	Nylon 6,6
Color	White
Weight (approx.)	13 oz/yd ² (441 g/m ²)
Maximum use temperature	450°F (232°C)
Fire retardant	Yes
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

SIZES

Width	Length	Packaging
60 inches (152 cm)	50 yards (45 m)	1 roll
up to 180 inches (457 cm)	50 yards (45 m)	special order

NOTES

- Material can be slit in special widths upon request (1 standard roll as minimum order quantity).
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.
- Packaging is clear with red print.



Data Sheet

ECONOWEAVE® 44

Medium weight inexpensive polyester breather/bleeder

DESCRIPTION

Econoweave® 44 is a recycled polyester breather for room temperature and elevated temperature cures. Econoweave® breathers are designed to be cost effective for use in the marine, automotive, general composite industries, compaction and debulking. It is medium weight, moderately thin and very drapable, conforming easily to contour shapes.

BENEFITS

- Low cost material reduces costs of vacuum bagging process.
- Good as a breather in oven and compaction applications.
- Good as a resin bleeder for resin rich applications.

TECHNICAL DATA

Fiber type	Polyester
Color	White
Weight (approx.)	4 oz/yd ² (135 g/m ²)
Maximum use temperature	375°F (190°C)
Fire retardant	N/A
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

SIZES

Width	Length	Packaging
60 inches (152 cm)	100 yards (91 m)	1 roll
up to 180 inches (457 cm)	100 yards (91 m)	special order

NOTES

- Material can be slit in special widths upon request (1 standard roll as minimum order quantity).
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.
- Packaging is clear with black print.



Data Sheet

ECONOWEAVE® 1010

Heavy weight inexpensive polyester breather/bleeder

DESCRIPTION

Econoweave® 1010 is a recycled polyester breather for room temperature and elevated temperature cures. Econoweave® breathers are designed to be cost effective for use in the marine, automotive and general composite industries. It is the heaviest of our recycled, non-woven polyester breathers and is designed for ambient, oven or low pressure cures. Econoweave® 1010 stretches easily to form over contour surfaces.

BENEFITS

- Low cost material reduces cost of vacuum bagging process.
- Good as a breather in oven and at low pressures.
- Good as a resin bleeder for resin rich applications.

TECHNICAL DATA

Fiber type	Polyester
Color	White
Weight (approx.)	10 oz/yd ² (339 g/m ²)
Maximum use temperature	375°F (190°C)
Fire retardant	N/A
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

SIZES

Width	Length	Packaging
60 inches (152 cm)	50 yards (45 m)	1 roll
up to 180 inches (457 cm)	50 yards (45 m)	special order

NOTES

- Material can be slit in special widths upon request (1 standard roll as minimum order quantity).
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.
- Packaging is clear with blue print.



Data Sheet

AIRWEAVE® UHT 800

Non-woven ultra high temperature fiberglass breather

DESCRIPTION

Airweave® UHT 800 is a non-woven blended, fiberglass breather. It is safer to use this breather in place of a woven fiberglass breather. Airweave® UHT 800 makes an easier transition for the vacuum bag and in any radius. One layer provides good breathing to 800°F (427°C). Airweave® UHT 800 is designed for use with high temperature thermoset and thermoplastic resin systems.

BENEFITS

- Ultra high temperature breather for applications such as thermoplastics.
- Non-woven breather construction superior to woven fiberglass.
- Maintain vacuum levels at very high temperature.

TECHNICAL DATA

Fiber type	Fiberglass
Color	White
Weight (approx.)	18 oz/yd ² (610 g/m ²)
Maximum use temperature	800°F (427°C)
Fire retardant	N/A
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

SIZES

Width	Length	Packaging
46 inches (117 cm)	50 yards (45 m)	1 roll

NOTES

- Material can be slit in special widths upon request (1 standard roll as minimum order quantity).
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.
- When cutting or handling Airweave® UHT 800, please follow the appropriate industrial hygiene practices for the handling of fiberglass fibers (i.e. appropriate skin and respiratory protection).

Last updated : 2019-02-04

Catalog position : **Breathers & Bleeders**



Data Sheet

AIRWEAVE® UHT 300PGL

Light weight non-woven fiberglass breather for ultra high temperature

DESCRIPTION

Airweave® UHT 300PGL is a premium non-woven blended, fiberglass breather for ultra high temperature applications. It is safer to use this breather in place of a woven fiberglass breather. Airweave® UHT 300PGL makes an easier transition for the vacuum bag and in any radius. One layer provides good breathing to 800°F (427°C). Airweave® UHT 300PGL is designed for use with high temperature thermoset and thermoplastic resin systems.

BENEFITS

- Ultra high temperature breather for applications such as thermoplastics.
- Non-woven breather construction superior to woven fiberglass.
- Maintain vacuum levels at very high temperature.

TECHNICAL DATA

Fiber type	Fiberglass
Color	White
Weight (approx.)	8.8 oz/yd ² (300 g/m ²)
Maximum use temperature	800°F (427°C)
Fire retardant	N/A
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

SIZES

Width	Length	Packaging
39 inches (100 cm)	55 yards (50 m)	1 roll

NOTES

- Material can be slit in special widths upon request (1 standard roll as minimum order quantity).
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.
- When cutting or handling Airweave® UHT 300PGL, please follow the appropriate industrial hygiene practices for the handling of fiberglass fibers (i.e. appropriate skin and respiratory protection).

Last updated : 2019-02-04

Catalog position : **Breathers & Bleeders**



Data Sheet

AIRWEAVE® UHT 450PGL

Medium weight non-woven fiberglass breather for ultra high temperature

DESCRIPTION

Airweave® UHT 450PGL is a premium non-woven blended, fiberglass breather for ultra high temperature. It is safer to use this breather in place of a woven fiberglass breather. Airweave® UHT 450PGL makes an easier transition for the vacuum bag and in any radius. One layer provides good breathing to 800°F (427°C). Airweave® UHT 450PGL is designed for use with high temperature thermoset and thermoplastic resin systems.

BENEFITS

- Ultra high temperature breather for applications such as thermoplastics.
- Non-woven breather construction superior to woven fiberglass.
- Maintain vacuum levels at very high temperature.

TECHNICAL DATA

Fiber type	Fiberglass
Color	White
Weight (approx.)	13 oz/yd ² (450 g/m ²)
Maximum use temperature	800°F (427°C)
Fire retardant	N/A
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

SIZES

Width	Length	Packaging
39 inches (100 cm)	55 yards (50 m)	1 roll

NOTES

- Material can be slit in special widths upon request (1 standard roll as minimum order quantity).
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.
- When cutting or handling Airweave® UHT 450PGL, please follow the appropriate industrial hygiene practices for the handling of fiberglass fibers (i.e. appropriate skin and respiratory protection).

Last updated : 2019-02-04

Catalog position : **Breathers & Bleeders**

Data Sheet

AIRSOCK BK 36

Breather for special applications

DESCRIPTION

Airsock BK 36 is a knitted nylon tubular breather used in special applications. The high stretch characteristics of Airsock BK 36 allow for easy deployment on a variety of mandrel sizes and shapes to be accommodated.

BENEFITS

- Tubular breather easier to deploy on mandrel applications saving labor.
- Stretch properties eliminate wrinkles and possible quality issues.
- Variety of size applications accommodated by stretch construction.

TECHNICAL DATA

Fiber type	Nylon
Color	White
Weight (approx.)	5.23 oz/yd ² (177 g/m ²)
Maximum use temperature	425°F (218°C)
Nominal thickness	0.010 inch (0.025 cm)
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

SIZES

Width	Length	Packaging
1.7 inches (4.3 cm)	400 yards (366 m)	2 x 200 yards (183 m), festooned

- Airsock BK 36 can be provided cut to length in kit form for production applications. Contact Airtech for a quote on your specific requirement.
- The nominal width of Airsock BK 36 is given for non-expanded material.



NOTES

- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.

Last updated : 2019-02-04

Catalog position : **Breathers & Bleeders**

Data Sheet

STRETCH FLOW 2000

Breather for special applications

DESCRIPTION

Stretch Flow 2000 is a knitted, nylon, stretchable breather used in a variety of applications. The high-stretch characteristics of Stretch Flow 2000 enable it to conform to many complex contour surfaces.

BENEFITS

- Stretchable breather fit for a wide variety of complex shapes.
- Stretch properties eliminate wrinkles and possible quality issues.
- Variety of size applications accommodated by stretchable, knitted construction.
- Heat-seamable for customized, stretchable configurations.

TECHNICAL DATA

Fiber type	Nylon
Color	White
Weight (approx.)	2.7 oz/yd ² (91.5 g/m ²)
Maximum use temperature	450°F (232°C)
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

SIZES

Width	Length	Packaging
59 inches (149 cm)	100 yards (91 m)	1 roll

- Stretch Flow 2000 can be provided cut to length in kit form for production applications. Contact Airtech for a quote on your specific requirement.
- The nominal width of Stretch Flow 2000 is given for non-expanded material.



Last updated : 2019-02-04

Catalog position : **Breathers & Bleeders**

Data Sheet

STRETCH FLOW P 2000

Breather for special applications

DESCRIPTION

Stretch Flow P 2000 is a knitted, polyester, stretchable breather used in a variety of applications. The high-stretch characteristics of Stretch Flow P 2000 enable it to conform to many complex contour surfaces.

BENEFITS

- Stretchable breather fit for a wide variety of complex shapes.
- Stretch properties eliminate wrinkles and possible quality issues.
- Variety of size applications accommodated by stretchable, knitted construction.
- Heat-seamable for customized, stretchable configurations.

TECHNICAL DATA

Fiber type	Polyester
Color	White
Weight (approx.)	2.35 oz/yd ² (80 g/m ²)
Maximum use temperature	450°F (232°C)
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

SIZES

Width	Length	Packaging
60 inches (152.5 cm)	100 yards (91 m)	1 roll

- Stretch Flow P 2000 can be provided cut to length in kit form for production applications. Contact Airtech for a quote on your specific requirement.
- The nominal width of Stretch Flow P 2000 is given for non-expanded material.



Last updated : 2019-02-04

Catalog position : **Breathers & Bleeders**



Data Sheet

AIRPATH MD

Expandable monofilament sleeving

DESCRIPTION

Airpath MD is a tough lightweight braided sleeve. The open weave construction provides excellent airflow when used as an edge breather.

BENEFITS

- Good flexibility in all directions.
- Exhibits excellent chemical resistance properties.
- Excellent airflow aids even distribution of vacuum.

TECHNICAL DATA

Material type	Polyester
Color	Red
Configuration of net	Braided tube
Maximum use temperature	400°F (204°C)
Elongation (sleeve)	20 %
Shelf life	Unlimited when stored in original packaging at 72°F (22°C)

SIZES

Internal Diameter	Size Range	Length
1.5 inches (3.8 cm)	1 - 2 inches (2.5 - 5.0 cm)	250 feet (76.2 m) / roll

- Other colors and sizes available, contact Airtech for more information.



NOTES

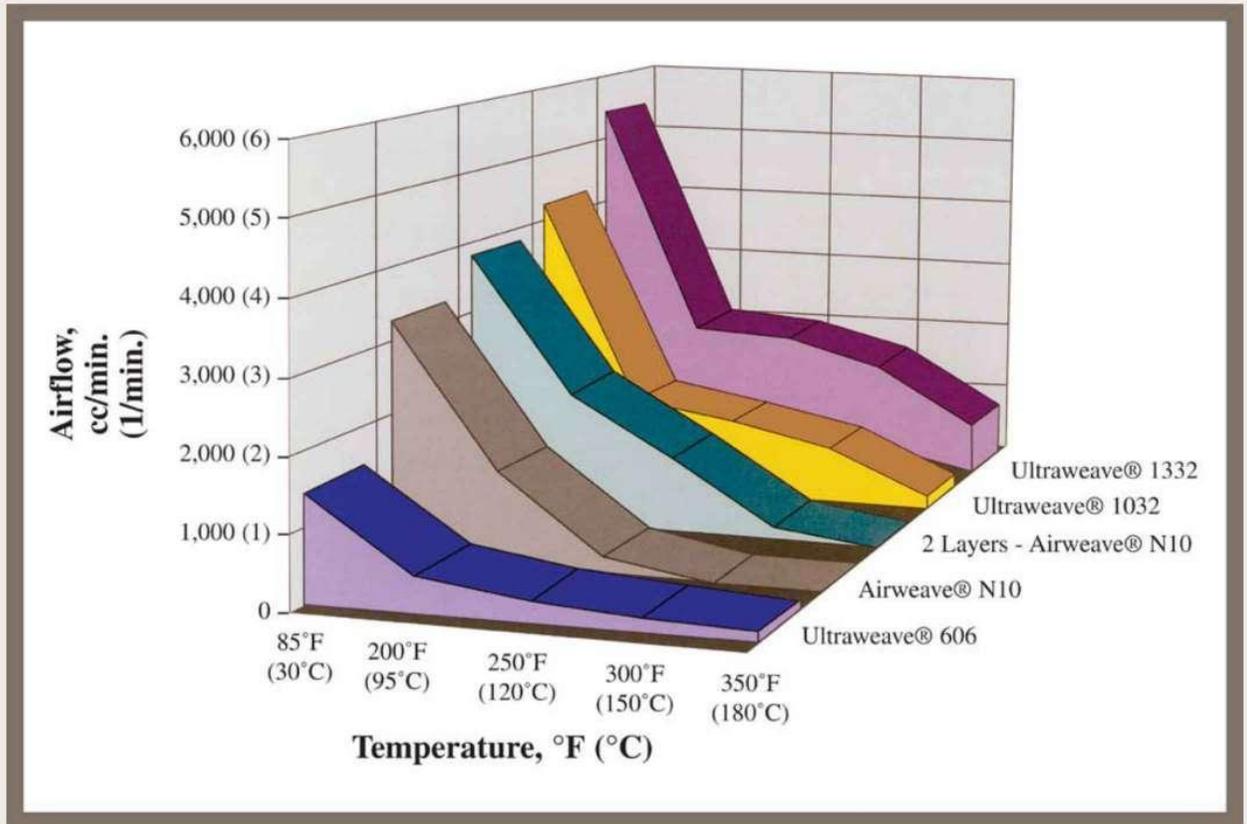
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.

Last updated : 2019-02-04

Catalog position : **Breathers & Bleeders**

Data Sheet

AIRTECH BREATHERS AT 100 PSI (7 BAR)



Last updated : 2017-07-13

Catalog position : **Breathers & Bleeders**



Data Sheet

FLASHPAC/STRETCHLEASE®

■ DESCRIPTION

Flashpac is used to absorb excess adhesive during secondary bond operations with composite or metal components. This provides a cleaner bond line fillet which reduces the risk of part damage during clean up. Any combination of peel plies, release films, or breathers can be bonded together using non-silicone based adhesive to make various Flashpac configurations.

Stretchlease® combines peel plies, release films, and/or breathers in wide-widths and can be slit to custom sizes. Significant labor savings can be achieved on gentle contoured details by having any combination of products applied in one operation as opposed to applying one layer at a time.

■ BENEFITS

- Combined products save labor costs by applying multiple layers at one time.
- Single product application reduces production cycle times.
- Simpler process reduces risk of error and improved quality.



Last updated : 2017-07-13

Catalog position : **Breathers & Bleeders**