

DATA SHEET

AIRWEAVE®
Non-Woven Polyester Breathers/Bleeders

Application

Airweave® was developed by Airtech in the early 1970's to replace fiberglass and Osenberg cloth as a breather and bleeder. **Airweave®** improved vacuum bagging by (1) its unique properties of being able to take high temperatures, (2) it is soft and conformable to avoid bridging, (3) it protects against bag failures in a sharp radius and (4) it channels air under high pressures. **Airweave®** is a unique, high melt point, polyester that is easy to cut and slit to narrow widths. The product line includes different weights and fiber thickness to work in room temperature to high pressure and temperature environments.

Description

- Airweave® A** A "waffle" pattern bleeder used for resin absorption in high flow, wet lay-up applications. Can be used as a breather for compaction or debulk application.
- Airweave® S** Thin breather with elongation for use up to 25 psi (2 bars). Works as a bleeder under any pressure.
- Airweave® SS FR** This unique blend of polyester with a high stretch fire retardant foam that allows for extra high elongation and drapability. The fire retardant properties provide for extra safety on higher temperature cures.
- Airweave® N-4** A good breather for low pressure cures and conforms well. Can be used as a bleeder at any pressure.
- Airweave® N-4 FR** The same as N-4 with the addition of fire retardant fibers for extra safety.
- Airweave® N-7** This medium weight breather should be used when N-4 is not sufficient for airflow or N-10 is too thick.
- Airweave® N-7 FR** The same as N-7 with the addition of the fire retardant fiber for extra safety.
- Airweave® N-10** Used for higher pressure cures. This breather still offers good elongation conformability and cushions any sharp radius for vacuum bag protection.
- Airweave® N-10 FR** The same as N-10 with the addition of fire retardant fibers for extra safety.

For specific material characteristics, see material characteristics chart on Page 3.

Continued on Next Page

CATALOG POSITION: **BREATHERS AND BLEEDERS**

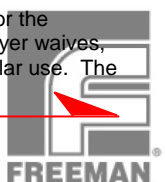
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Non-Woven Polyester Breathers/Bleeders

Descriptions (Continued)

- Airweave® Super 10** This higher denier polyester fiber breather is designed for high pressure cures in the autoclave. The higher denier allows for better airflow under temperature and pressure.
- Airweave® Super 10 FR** The same as Super 10, with the addition of fire retardant fibers for extra safety.
- Airweave® Super 18** This heavier version of Super 10 is ideal for very high pressures or where a sharp radius could puncture the vacuum bag.
- Airweave® Super 18 FR** The same as Super 18, with the addition of fire retardant fibers for extra safety.

For specific material characteristics, see material characteristics chart on Page 3.

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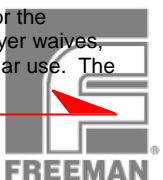
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AIRWEAVE®
Material Characteristics

Product	Base Material	Color	Nominal Weight oz./yd. ² (g/m ²)	Maximum Recommended Use Temperature (1) °F. (°C.)	Fire Retardant	Roll Size (2) In. x yd. (cm x m)
Airweave® A	Rayon	White	1.6 (54.3)	400 (204)	N/A	64 x 250 (162 x 228)
Airweave® S	Polyester	White	3 (102)	400 (204)	N/A	56 x 150 (142 x 137)
Airweave® SSFR	Polyester	White	4 (135)	400 (204)	YES	60 x 100 (152 x 91)
Airweave® N-4	Polyester	White	4 (135)	400 (204)	N/A	60 x 100 (152 x 91)
Airweave® N-4 FR	Polyester	White	4 (135)	400 (204)	YES	60 x 100 (152 x 91)
Airweave® N-7	Polyester	White	7 (237)	400 (204)	N/A	60 x 50 (152 x 45)
Airweave® N-7 FR	Polyester	White	7 (237)	400 (204)	YES	60 x 50 (152 x 45)
Airweave® N-10	Polyester	White	10 (339)	400 (204)	N/A	60 x 50 (152 x 45)
Airweave® N-10 FR	Polyester	White	10 (339)	400 (204)	YES	60 x 50 (152 x 45)
Airweave® Super 10	Polyester	White	10 (339)	400 (204)	N/A	60 x 50 (152 x 45)
Airweave® Super 10 FR	Polyester	White	10 (339)	400 (204)	YES	60 x 50 (152 x 45)
Airweave® Super 18	Polyester	White	18 (610)	400 (204)	N/A	60 x 25 (152 x 23)
Airweave® Super 18 FR	Polyester	White	18 (610)	400 (204)	YES	60 x 25 (152 x 23)

1) Maximum recommended use temperature is dependant upon the duration at maximum temperature and is process specific.

2) Airweave® styles indicated are available in widths up to 120" (3.04m) and can be slit to narrow widths. Approximate roll width tolerance is +0/-1.0 in (+0/-25.4 mm)

NOTE: Shelf life is 18 months on all Airweave® styles.

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