



## AL-Delta - for Bulky Airlaid Fabrics

ES FIBERVISIONS now introduces:

### AL-Delta

With this new fiber it is possible for manufacturers of airlaid nonwoven fabrics to extend current product portfolios into new application and business areas.

The AL-Delta has the following advantages:

- As the first fiber ever the AL-Delta fiber provides excellent bulkiness in airlaid fabrics. The AL-Delta provides up to several hundred percent more bulk than AL-Special and other bicomponent shortcut fibers. Bulkiness is not influenced by the dtex of AL-Delta at low bonding temperatures. However, to obtain maximum bulk in the fabric at higher temperatures we recommend the use of higher dtex fibers.

The photo illustrates the difference in liquid distribution. Each nonwoven sample received 3 ml liquids. The nonwovens are 90 g/m<sup>2</sup> airlaid material made from 15% AL-Adhesion (1.7 dtex) and 85% pulp. However, the sample to the right has a top layer of 100% 20 g/m<sup>2</sup> AL-Delta, which results in better distribution of the liquid and also in a dry surface.

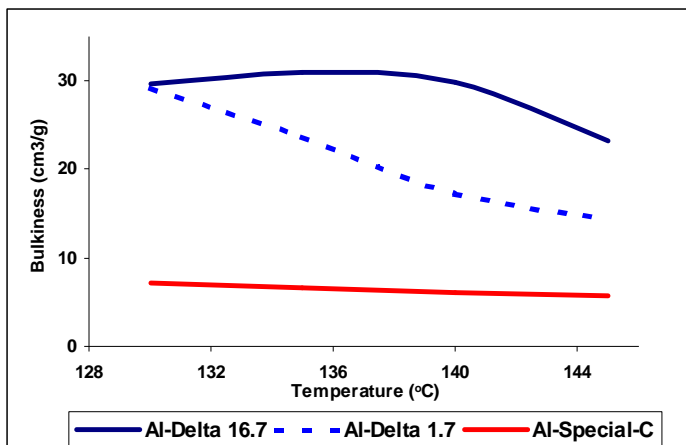
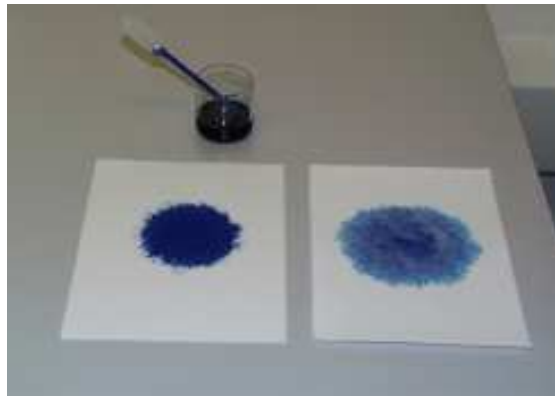


Figure: Bulkiness (in cm<sup>3</sup>/g) of a 50 g/m<sup>2</sup> product made from 100% bicomponent fibers (6 mm).

- The short cut fiber also results in a very soft fabric, in 2.2 and 3.3 dtex versions.
- The fiber is designed to be used 100% instead of traditional blends with cellulose fibers. This also allows the production of dust-free airlaid fabrics. With just 10 g/m<sup>2</sup> of AL-Delta on each side of the airlaid product there will be no dust at all.
- The fiber is available in 3, 4, 6, 8 and 12 mm, making it suitable for both M&J Fibretech and DanWeb Int. lines.

### Excellent Acquisition and Distribution Layer

AL-Delta fabrics serve as very good distribution layers when laid on top of an airlaid product and this two-layer product can be made in one step. This concept has the additional benefit that the top layer will prevent dust and linting of the product.

#### Other Fiber Properties (typical values):

Dtex:	1.7 - 16.7 dtex
Tensile Strength:	3.0 - 4.0 cN/dtex
Elongation:	80 - 150%
Fiber Length:	3, 4, 6, 12 mm
Crimp Frequency:	60 - 100
Spin Finish (durable):	0.4 - 0.6%

Polyolefin fibers consist of 99% carbon and hydrogen. The remaining 1% consists of water and applied spin finish. The fiber bales are protected with polyolefin foil and closed with polyester straps. The product and the packaging materials are suitable for recycling and combustion. Inhouse waste should be kept clean to facilitate direct recycling. In disposal of any waste, be certain all applicable regulations are met.

For further information contact your ES FIBERVISIONS representative.

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