



# Airlaid PP Core Fiber Programme

ES FIBERVISIONS produces a wide range of bicomponent fibers for the airlaid technology. The fibers are a sheath/core construction. The core consists of a high melting polymer (polypropylene) surrounded by a low melting polymer (polyethylene).

The eccentric core of AL-Delta develops bulk due to the shifting of the core. The concentric cores of AL-Lowmelt, AL-Special and AL-Adhesion result in improved resilience of the product.

The production programme consists of four ranges:

ES FIBERVISIONS AL-Delta makes it possible to achieve bulkiness and new liquid transport functions in airlaid structures: Several hundreds percentage more bulk.

ES FIBERVISIONS AL-Lowmelt makes bonding under 100°C possible. It adds softness to the products, makes lamination to other materials possible, and binds at low temperatures

ES FIBERVISIONS AL-Special in the concentric version is produced with different sheath/core ratios (65%/35% PE/PP-content).

ES FIBERVISIONS AL-Adhesion-C is an improved fiber with regard to bonding to cellulose fibers. The effect is that the dust formation during production of and in the airlaid material can be reduced significantly, and the airlaid product strength increases.

**ES FIBERVISIONS AL-fibres are available in 3, 4, 6 and 12 mm cut length:**

The full range of fiber cut lengths ensure that the airlaid manufacturers can find the ideal fiber to provide better process conditions and better airlaid products.

ES FIBERVISIONS emphasizes the customization of our fibers. These efforts ensure our customers optimal process conditions. Furthermore, fibers can be tailor-made to meet a customer's specific requirements to the fibers or the diversity of airlaid products.

## Fiber Properties

The general fiber characteristics of the ES FIBERVISIONS AL-fibers are:

Dtex (Int. FV test):	1.7-16.7 dtex
Fiber length (Int. FV test):	3, 4, 6, 12 mm
Crimp frequency (Int. FV test):	0-100 per 100 mm
Spin finish:	Standard hydrophilic Repeat hydrophilic FDA approved hydrophilic Hydrophobic





*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.*

## ES FIBERVISIONS AL-fibers: Specific Fiber Properties

(All data shown below are typical fiber and nonwoven data)

	AL-Delta	AL-Lowmelt	AL-Special-C	AL-Adhesion-C
Sheath/core ratio (PE/PP)	50%/50%	50%/50%	65%/35%	65%/35%
Configuration				
Softening point (sheath)	124°C	94°C	124°C	122°C
Melting point (sheath)	130°C	95°C	130°C	130°C
Nonwoven bulkiness	High (+++)	Medium (++)	Low (+)	Low (+)
Nonwoven features	Bulkiness	Softness Lamination Low bonding temp.	Strength	High strength No dust Low linting Cellulose adhesion

## Further information:

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