

The logo consists of a stylized 'A' shape formed by three overlapping geometric shapes: a white shape on the left, a red shape in the middle, and a white shape on the right.

# AHLSTROM

## Fibrous Casing Paper



# Sustainable solutions for fibrous casing

## Discover our full range of products

With decades of experience in the manufacturing of fiber-based materials, Ahlstrom has been continuously innovating to be at the forefront of solutions for meat packaging.

The composition of our fibrous casing paper, made from natural and renewable long cellulosic fibers, mainly Abaca, is established and enables highest quality applications. Viscose impregnation is used to bond the fibers together, leading to a unique and outstanding offering on the market place. Fibrous casing paper is a sustainable and environmentally friendly product as it uses plant based renewable natural resources, compared to animal-derived collagen or plastic, which is oil based.

The product design enables excellent smoke permeability, consistent mechanical strength and tube diameter control for smoked and air-dried meat products.

Ahlstrom fibrous casing paper features excellent machinability and uniformity which allows the material to fully adapt to high speed operations. The fiber-based technologies using natural, renewable raw materials offer a high level of tube burst strength and improved yields. The high permeability of our grades helps to achieve consistent and superior performance during the smoking and air-drying cycles, meeting the critical demands of the processed meat industry.

## Why choose Ahlstrom fibrous casing paper?

- High burst strength by using Abaca fibers
- Excellent diameter control due to controlled water release
- Unique quality of finished products due to viscose-impregnation
- Wide range of fibrous casing paper for a variety of meat processing applications
- Technology based on renewable natural resources



## End-uses and applications – The right solutions to your needs

Ahlstrom fibrous casing paper offers consistent and efficient quality to manufacturers of meat casing, so that they can assure full reliability to producers of a complex variety of processed meat products.

Thanks to the controlled levels of meat adhesion, smoking and drying features, our fibrous casing paper finds ideal use in a variety of meat packaging applications.

Industrial customers with a high level of automation benefit from the high strength properties of fibrous casing paper compared to cellulose or collagen casings. This is especially relevant for automatic slicing and peeling of long sausages, up to 1.3 meters in length.

### Air-dried sausages (dry and semi dry products)

Our products are suitable for sausages made fresh, salted and air-dried for weeks or months, depending on the finished type. These include:

- Chorizo
- Coppa
- Salami
- Pepperoni
- Mortadella



# Ahlstrom K-paper – Viscose bonded fibrous casing paper

## Our unique, high performance, superior quality casing technology

Our exclusive K-Paper is designed using long cellulosic fibers bonded with viscose - a regenerated cellulose binder - allowing efficient, sustainable and consistent meat processing.

The wide basis weights, ranging from 17 to 28 gsm, offer different features and performances, allowing our customers to select the most appropriate technology to meet their specific needs.

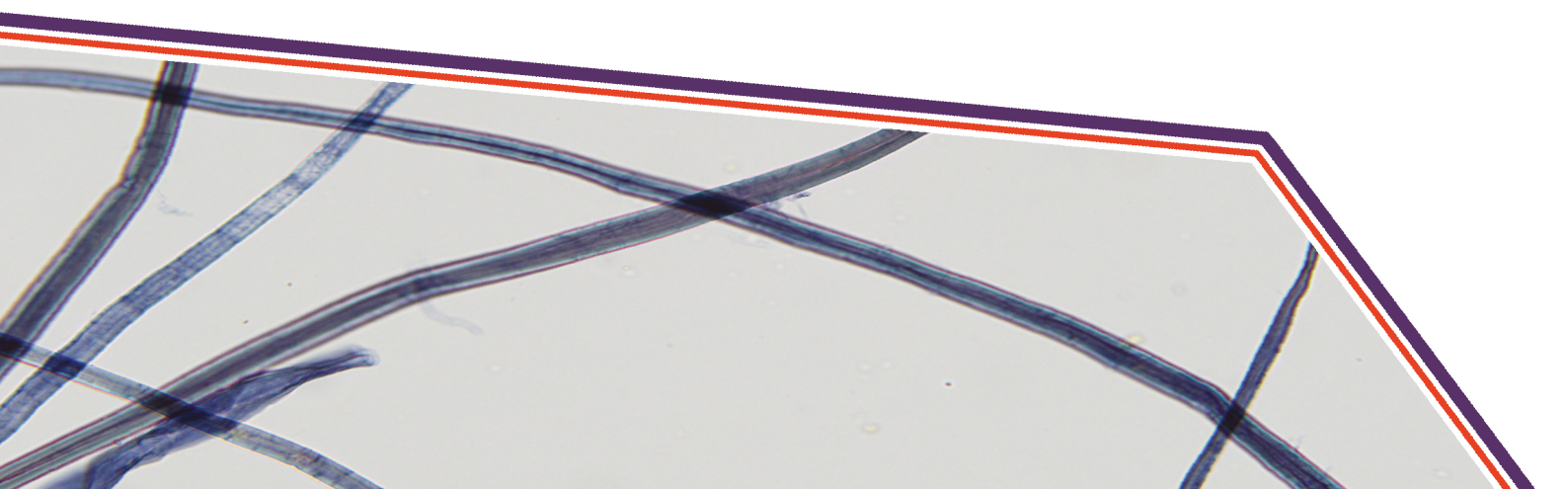
All components of the different grades comply with the relevant FDA and BfR food regulations.

## Features and benefits

- Made of exotic natural long fibers (mainly Abaca)
- Even viscose penetration during the tube forming process due to consistent absorbency
- Excellent tube diameter control combined with high strength and high caustic tensile strength
- Food-approved wet strength agent

## Technical properties

GRADE	Basis Weight (gsm)	Wet Tensile MD (N/m)	Wet Tensile CD (N/m)	Wet Elongation CCD (%)	Wet Elongation SCD (%)	Wet Elongation ECD (%)	Caustic Tensile MD (N/m)	Caustic Tensile CD (N/m)	Air Permeability (l/min/100 cm <sup>2</sup> )
<b>5682</b>	17	400	330	12	12.8	13.3	135	100	1800
<b>5683</b>	19	460	380	12	12.7	13.5	160	120	1500
<b>5681</b>	21	540	440	11.5	12.2	12.9	185	140	1300
<b>5684</b>	23.75	600	500	11.4	12	12.7	220	165	1100
<b>5680</b>	25.5	670	550	11.6	12.4	13	252	200	1000
<b>5782</b>	28	796	652	11.5	12.2	12.7	308	240	850



## Discover our grades complementing K-Paper standard offering

In addition to our standard K-Paper, Ahlstrom offers tailor-made technologies for the most demanding meat casing requirements.

Our Ultracor and K/M grades offer different properties and characteristics, allowing our customers to choose the most suitable fibrous reinforcement for their sausage casing needs.

All components of our grades comply with the relevant FDA and BfR food regulations.

### Ahlstrom Ultracor and K/M – modified fibrous casing paper

Ultracor is a 24.5 gsm grade comprised of a blend of abaca fibers and a percentage of polyester fibers, bonded with a regenerated cellulose binder.

#### Features and benefits

Flatter wet elongation profile which improves printing and converting processes of the finished casing. Better cross profile with lower stretch at the edges compared to other technologies and improved converting and printing of the finished casing.

#### Technical properties - Ultracor

GRADE	Basis Weight (gsm)	Wet Tensile MD (N/m)	Wet Tensile CD (N/m)	Wet Elongation CCD (%)	Wet Elongation SCD (%)	Wet Elongation ECD (%)	Caustic Tensile MD (N/m)	Caustic Tensile CD (N/m)	Air Permeability (l/min/100 cm <sup>2</sup> )
<b>2267</b>	24.5	605	495	12	12.6	13	238	184	1045

K/M paper is produced with a base weight of 23.75 and 25.5 gsm and with a modified viscose treatment.

#### Features and benefits

Increased stiffness for better processing during viscose impregnation  
Suitable for processing of wider codes

#### Technical properties - K/M

GRADE	Basis Weight (gsm)	Wet Tensile MD (N/m)	Wet Tensile CD (N/m)	Wet Elongation CCD (%)	Wet Elongation SCD (%)	Wet Elongation ECD (%)	Caustic Tensile MD (N/m)	Caustic Tensile CD (N/m)	Air Permeability (l/min/100 cm <sup>2</sup> )
<b>2423</b>	23.75	677	555	12.1	12.7	13.6	286	215	1100
<b>2426</b>	25.5	712	584	12.4	12.9	13.7	305	250	950

# **Fibrous casing paper: innovative by nature**

**Our sustainable alternative for meat  
packaging solutions**



# Fibrous casing paper: our contribution to a healthier planet



**Made from renewable raw material**



**Plastic-free grades**



**Suitable for vegan food**

## Green material, the key to our fibrous casing paper

Our commitment is towards a more sustainable development. This is why our resources are based on natural, renewable and biodegradable raw materials. Abaca being one.

Abaca is considered the longest and strongest of all natural fibers. It is renewable and biodegradable at the same time.

Compared to synthetic fibers like rayon, polyester and nylon, abaca fiber possesses comparable tensile strength and lower elongation in both wet and dry states.

Abaca is strong, flexible and sustainable, and the reason why this fiber is at the core of our fibrous casing solutions.

## Sustainability is at the heart of our business

Ahlstrom's offering contributes to a more sustainable everyday life by providing renewable materials and solutions that make end products more sustainable.

Our innovation platform allows us to select lower impact materials in our sourcing, improve production processes, and empower customers to create more sustainable fibrous casing solutions.

### Fibrous casing paper: our journey towards more sustainable meat packaging solutions

We source our Abaca as fibers, which are then transformed into Abaca pulp at our Radcliffe, UK facility.

This business is characterized by long-lasting relationships with our suppliers, based on trust and loyalty. All supply chains are under scrutiny from a broader sustainability perspective for compliance with social, environmental, and economic responsibility matters.

Ahlstrom is a global leader in combining fibers into sustainable specialty materials. Our purpose is to Purify and Protect, with Every Fiber, for a Sustainable World. Our vision is to be the Preferred Sustainable Specialty Materials Company for all our stakeholders. We serve five growing and distinctive end markets, which form the basis for our five divisions: Filtration, Food & Consumer Packaging, Healthcare, Building Materials, and Technical Materials. Our pro forma net sales 2021 for continuing operations amounted to EUR 2.6 billion and we employ some 7,000 people.

## CONTACT AHLSTROM SALES

### Global

+49 1721 478 115

casing@ahlstrom.com

LEARN MORE: [WWW.AHLSTROM.COM](http://WWW.AHLSTROM.COM)

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