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Киргизия (996)312-96-26-47

Россия (495)268-04-70

Казахстан (772)734-952-31

<https://ahlstrom.nt-rt.ru/> || ame@nt-rt.ru

Compostable & oil based plastic free tea bag materials



Ahlstrom-Munksjö specialists have developed two ranges of tea bag materials using a renewable biopolymer, polylactic acid (PLA). Our BioWeb® and Fiber+ ranges are renewable, certified compostable and oil based plastic free and will revolutionize the way that you market your tea.

BioWeb®

- Delivers outstanding infusion
- Neutral odor and taste
- Excellent tea blend retention
- Silken web highlights tea
- 100% renewable raw materials
- Fully compostable

Fiber+

- Same converting efficiency as our InFuse range with added environmental credentials
- Fully compostable according to norm EN13432
- Fossil plastic free: binder agent is Poly Lactic Acid; a biopolymer

Nowadays there is a lot of attention on plastics in packaging and the effects it has on the environment ultimately, our health.

The 'Plastic Free' movement is gaining traction with consumers as well as with retailers and even governments. In the world of tea bag materials, some brands have been pressured to switch to plastic free materials by their consumers.

BioWeb® ultrasonic and heat-seal filter webs

We introduce the first beverage filter web made from 100% renewable materials.

This lightweight, fine-filament web is made from polylactic acid (PLA) and features an embossed point bond or basket weave pattern.

Its neutral odor and taste, and high transparency, make it ideal for a wide variety of black and specialty teas and infusions. It is also one of the first to be fully compostable.

Regulations

All materials used to manufacture these grades are certified in accordance with US FDS regulation 21 CFR176.170 and/or EU regulation 1935-2004.

Applications

BioWeb® is designed for use with ultrasonic sealing and heat-sealing equipment.

BioWeb Robust™

Robust™ is a dedicated fiber blend for Ahlstrom-Munksjö products, whether BioWeb®, InFuse heat-seal or Classic non-heat-seal.

With BioWeb®, our Robust™ version allows for increased mechanical stability and a wider heat-seal window, which means no more lost time while adjusting your equipment.

That means BioWeb® Robust™ can now be a substitute for traditional heat-seal materials!

Fiber+

This new product range offers a plastic free, certified compostable version of our traditional heat sealable Infuse range combining high performance with special focus on reducing the environmental impact at end of life.

The Fiber+ technology consists in replacing the plastic by PLA, a material that has the same properties but is renewable, biodegradable and compostable after use

These filters have been specifically designed to perform at the same high level as traditional heat-seal material but with the advantage of meeting regulatory requirements for composting industrially.

In terms of environmental credentials, Fiber+ is certified compostable by TÜV Austria with the OK Compost Industrial label (as our customer, it is possible to get the same label with a fast tracked process)

Fiber+ end of life: Consumer can responsibly dispose of Fiber+ teabags in their local council food bin or organic waste collection which are essentially industrial compost facilities

Product	Type	Grammage (gsm)	Characteristics
Classic	Non-heatsealable	12.3	Standard Grade
Classic	Non-heatsealable	12.8	Leaker Proof technology
Classic Robust™	Non-heatsealable	13.2	Premium Grade, Leaker Proof technology (Perfecta Cup)
InFuse™	Heatsealable	16.5	Small diamond pattern
InFuse™	Heatsealable	16.5	Not Mai Sa EC12, C2000/T10
InFuse™	Heatsealable	16.5	Not round bag and C2000/T10
InFuse™	Heatsealable	16.5	Specifically for IMA C2000, Tecnomeccanica T10 only
InFuse Robust™	Heatsealable	16.5	Premium grade, small

			diamond pattern (for IMA C51)
InFuse Robust™	Heatsealable	16.5	Premium Grade, plain (for IMA C51)
BioWeb®	Heatsealable	18	Fuso, Sanko machines (Ultrasonic)
BioWeb®	Heatsealable	18	Universal Pack, Tecnomeccanica T2
BioWeb®	Heatsealable	18	Universal Pack, low humidity
BioWeb®	Ultrasonic	18	Fuso, Sanko machines (Ultrasonic)
BioWeb® Robust	Heatsealable	18	Premium Grade, point bond pattern, for fast heatseal machines
BioWeb® Robust	Heatsealable	18	Premium Grade, point bond pattern, for fast heatseal machines at high speed
Fiber+	Heatsealable	16.5	Compostable grade, C2000, C2002 & C51
Classic Unbleached	Non-Heatsealable	12.8	100% Unbleached
InFuse™ Unbleached	Heatsealable	16.5	Unbleached, suitable for most HS machines
Gerbier™ HDST	Tea Bag envelope paper	40 / 50 / 60 / 70	Good gloss, Heat-resistant, High mechanical properties, Very good printability

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