



OXIA

Secoplan Dryer Fabrics –
reliable, efficient, customised

Heimbach – wherever paper is made





Welcome to the World of Dryer Fabrics!

By the time the sheet reaches the dryer section, many of the crucial factors that impact upon paper quality and process efficiency have already been addressed. However: the final reckoning is always made at the end and for this reason the last few metres will determine the overall outcome.

OXA Dryer Fabrics from the secoplan family stand for:

- Paper quality
- Production volume
- Cost efficiency

OXA Dryer Fabrics from the secoplan family offer:

- Reliability
- Efficiency
- Customisation

Paper Quality and Cost Efficiency – The relevant factors:

Efficient and reliable flow of processes

- OXA Dryer Fabrics keep their dimensional stability even when **running at high speeds** and with high vacuum.
- **Slalom positions** usually put load on the paper sheet – This isn't the case when talking about OXA Dryer Fabrics. The low caliper and partly asymmetric weave of these designs ensures the sheet is **less exposed to crushing or elongation**.
- Due to less elongation of the fabric ideally suited for machines with **low fabric length tolerances**.
- Minimal impact on the fabric during **tail cutting**, as a result of an ideal ratio of yarn diameter and trimming water jet.

High profitability

- An optimum ratio of contact area and contact points results in **improved heat transfer** and thus **less steam consumption**.
- The weaving structure translates into **energy savings** and improved fabric cleanability. Your advantages: less machine shut downs and reduced steam consumption.
- The twist free and protected seams **maximise fabric life time, reduce shut down periods** and are **simply easier to close**.

Consistent & Even Paper Quality

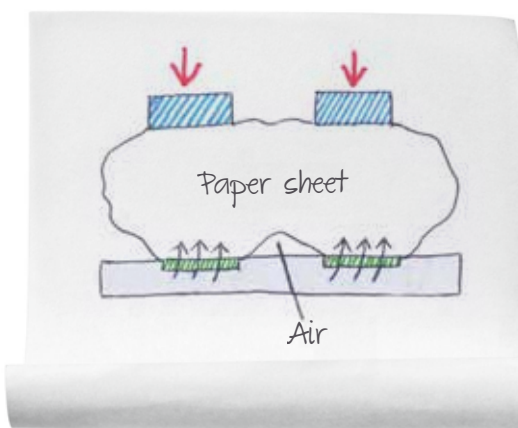
- Consistently even across the width and length – exactly how it should be! This is based on both an **even evaporation rate** and an **even moisture profile** – no problem for the OXA fabrics of the secoplan family.
- Due to their very even weave structure the use of OXA fabrics results in **low 2-Sigma values, without any moisture peaks**.
- **Faultless & marking free** – clear signs of good paper quality. Low air perm differences between the seam area and the fabric itself result in perfect paper quality.

You know what counts: reliable processes give high profitability and consistent results. In this respect we would like to demonstrate the outstanding position of our OXA Dryer Fabrics of the secoplan family.

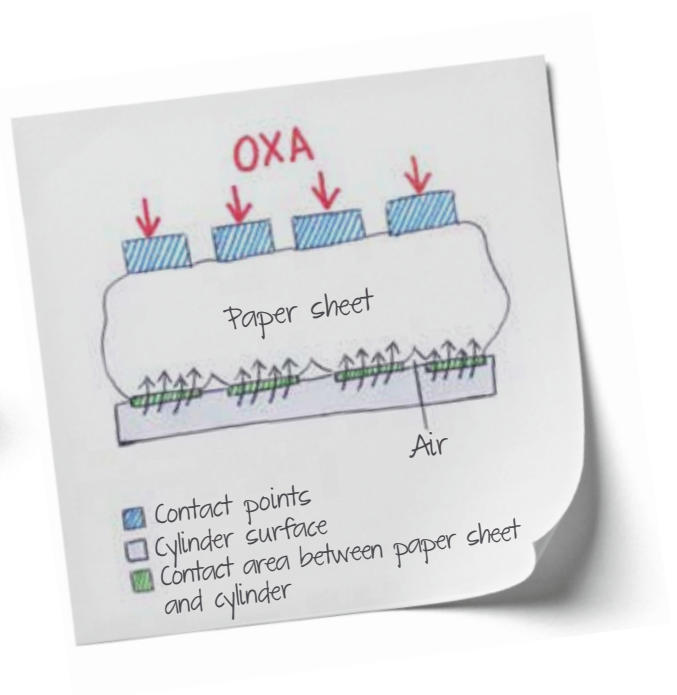
On the next pages you will find more details on:

- The optimum ratio of contact area and contact points,
- ideal solutions for the seam,
- the very characteristic weaving structure.





The optimum contact area results in an even heat transfer, an even evaporation and an even moisture profile, in other words: excellent paper quality.



A large contact area with many contact points. That's what counts.

A large contact area characterises a good dryer fabric. In especially high performance fabrics these contact areas are made up of a multitude of small contact points arranged close to each other. And here is the secret of secoplan.X and secoplan.A: the weft has been integrated into the surface structure of the fabric. More quality, more productivity! All dryer fabrics of the secoplan family consist of flat wide mono filaments – for larger contact areas and a stable and smooth run.

Overview of your benefits	
Paper Quality	The excellent heat transfer results in an even moisture profile without building up an insulating layer of air between cylinder and paper sheet. This reduces cockling. Particular advantage of using secoplan.A and secoplan.X.
Fabric Life Time	secoplan.A and secoplan.X. are highly resistant against wear. All OXA Dryer Fabrics of the secoplan family can be easily and efficiently cleaned.
Energy efficiency	Due to the large contact area, made up of a multitude of individual contact points, the drive energy is actually transferred with minimum losses, which results in an optimum usage of energy. The high level of heat transfer between paper sheet and cylinder leads to a reduced steam consumption.



When comparing 2 equally sized contact areas, the number of contact points is crucial. A high number of contact points is essential for: paper quality, energy efficiency and a long fabric life time.

Perfectly integrated seams – for excellent and efficient production results.

The seam area of a dryer fabric has to meet special requirements: the fabric itself needs to retain its tensile strength, whereas the seam must not leave any markings in the sheet and is to be closed both fast and without any problems. OXA fabrics of the secoplan family can be equipped with either pin or spiral seams.

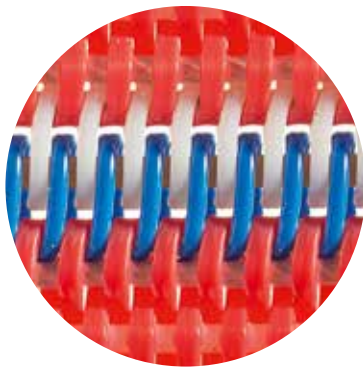
Your Advantages: all fabrics can be easily and quickly closed. Increased fabric life time, increased productivity!

Similar to a zipper all loops of the seam fit into each other – safe, fast, reliably: **The Zipper Effect.**

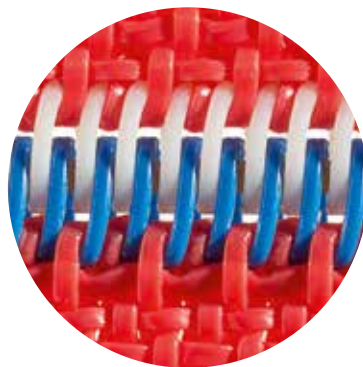


Summary of your benefits

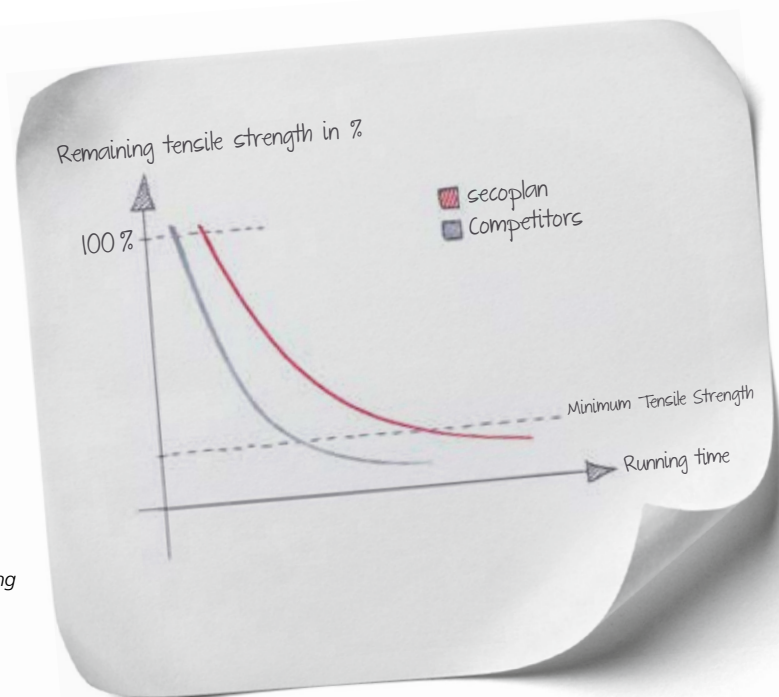
Fabric Life Time	secoplan.O: no twister, reduced wear. secoplan.X: high yarn protection within the seam area, resulting in increased fabric life time.
Productivity	Due to the Zipper Effect, all OXA Dryer Fabrics of the secoplan family equipped with pin seams can be closed extraordinarily quickly and easily.
Paper Quality	No marks of varying dry content as the air permeability in the seam area is almost identical to the body of the fabric. An advantage of all OXA Dryer Fabrics of the secoplan family.



secoplan.O with twister free seam.



secoplan.X with protected seam.



The yarns in the seam area are especially protected – thus resulting in longer lifetime.

The Weave Structure: Best results for your high demanding requirements.

Even in machines with low length tolerances, at high speeds and in slalom positions – a dryer fabric needs to be dimensionally stable and to run steadily. With a firmly woven structure it will hardly elongate and pass drying cylinders and vacuum rolls without any major speed differences. The sheet is neither elongated nor crushed. Best paper quality, more productivity.

The fine structures are easy to clean – within our secoplan family you will always find the best solution for whatever mechanical cleaning methods that you employ. Shorter shut downs, more productivity!

The dense structures do not allow any water or contamination deposits. Air permeability stays on a high level, the dry content is even all across the fabric – best paper quality, increased productivity!

During trimming the ratio of yarn diameter and water jet ensures a significantly reduced load of the fabric. Longer fabric life time, increased productivity!

Summary of your benefits

Energy efficiency

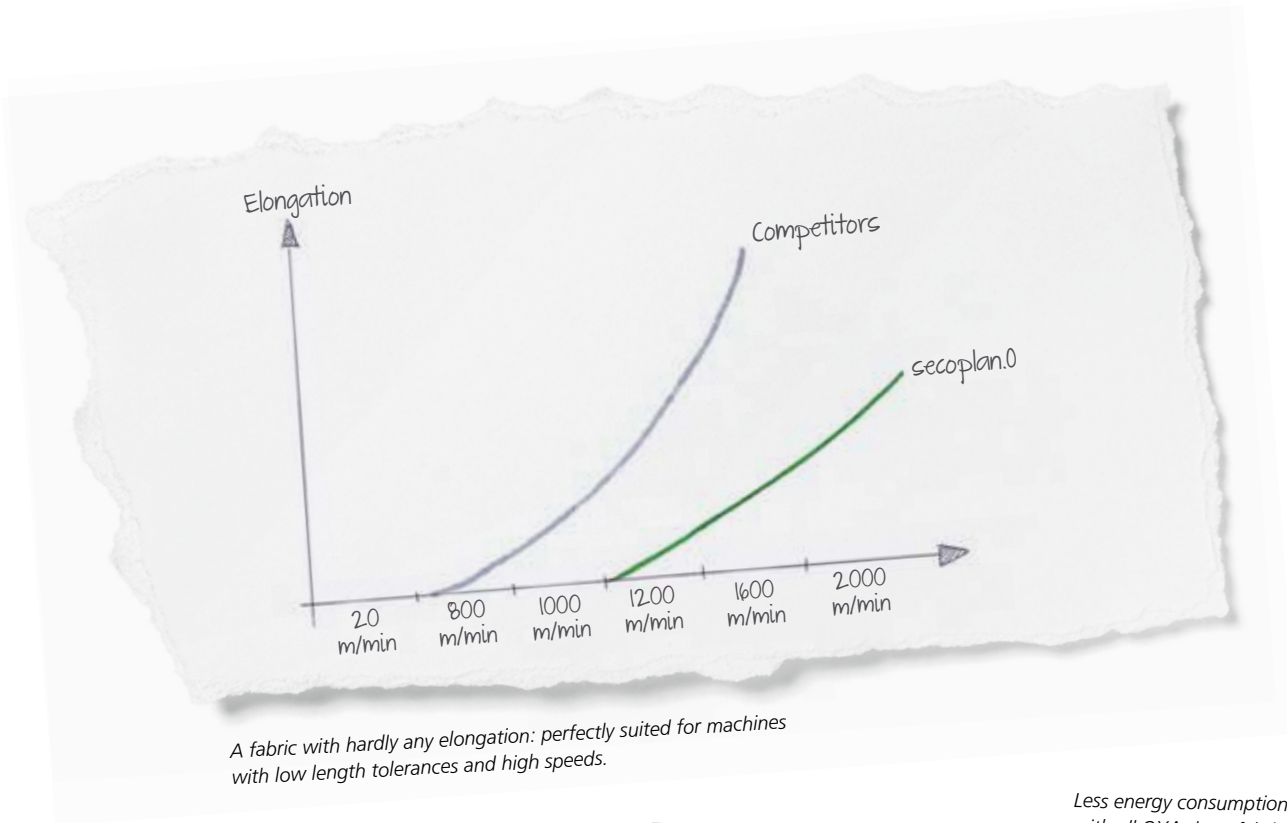
Whether drive energy or evaporation rate: All OXA Dryer Fabrics use energy to the best possible degree. Drive energy is being transferred with minimum losses. Evaporation channels are especially effective.

Productivity

secoplan.O and secoplan.X hardly carry any water. secoplan.X and secoplan.A reduce air carrying as well as sheet fluttering and the amount of breaks significantly. secoplan.O is ideally used in machines with low length tolerances as it has the highest elongation resistance.

Fabric Life Time

All OXA Dryer Fabrics can be cleaned easily. For every mechanical cleaning method you will find the optimum solution in the secoplan family of dryer fabrics. Moreover Secoplan.X stands out for its particularly resistant roll side – hardly any wear!



Less energy consumption with all OXA dryer fabrics.



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