

ATROSPEED from Heimbach: The new Press Felt Innovation

atrospeed.

Heimbach – wherever paper is made.



ATROSPEED – Monofilaments for All Grades

Higher machine speeds, growing production volumes and increasing production costs combined with higher quality requirements, put special demands on the clothing for paper machines. The proportions of waste paper are also taking off and the end is not in sight. The resultant deterioration in stock quality (higher ash contents up to ca. 18%) contributes to runnability problems and has a significant effect on mill efficiencies.

In order to meet the growing demands on the clothing such as long running times, highest possible dewatering, good conditioning characteristics and fast start, Heimbach has developed the ATROSPEED product range.

ATROSPEED is a universally applicable press felt with a purely monofilament base which has already proved successful in a variety of positions on many grades and basis weight ranges. Its application ranges from fine paper, through newsprint into the packaging grades.

ATROSPEED on Fine Papers

In some special grades very high volumes of aggressive fillers (eg. titanium dioxide) are used. These deposit themselves in the base structure, particularly plied yarns and multifilaments, and lead to unwanted tensile losses as a result of internal friction and also to premature blinding.

The removal of these blinding materials puts particular demands on the felt conditioning. In addition to the use of higher water pressures from the HP showers, more frequent shock

washing is necessary, both of which substantially reduce felt life and impair runnability.

With the use of open monofilament base weaves and a balanced batt to base weight relationship, it has been possible to increase felt life significantly. Particularly in the pick-up position the ATROSPEED concept has met all demands, such as good start, optimal dewatering, freedom from marking and even CD profiles, in full measure.

The advantages of the monofilament ATROSPEED base can be clearly summarised:

- incompressible base weave which retains its void volume throughout its life
- very good start up characteristics
- optimal relationship of nip- and Uhle box-dewatering created by batt- / base-weight balance
- very light base weave
- open structure
- easy conditioning
- very low base blinding tendency
- self cleaning effect through high nip dewatering

ATROSPEED on Newsprint

The increasing demand for faster, more efficient and higher quality production resulted in a continuous increase in machine speeds and optimisation of plant. The achievement of best quality at maximum production is in large measure dependent on a fast start and the highest possible dewatering as prerequisites for success.

Here also good felt conditioning is critical owing to the high proportions of waste paper. In the pick-up position of one of the fastest newsprint machines (> 1800 m/min) ATROSPEED was able to increase life by 20% compared with previous laminated felts together with an optimal start and excellent dewatering.

ATROSPEED on Packaging Grades

The demand for packaging grades is unstoppable and the extended range of grades has resulted in further machine development.

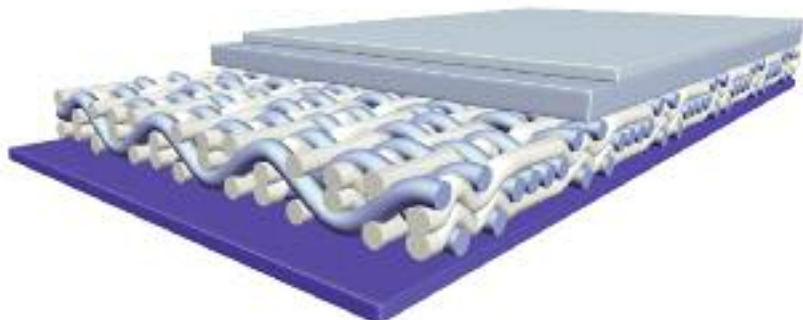
A deterioration of the stock is noticeable as a result of the heavy re-circulation of the waste. Ten years ago ash contents of 10-12% were normal, whilst today 16-18% is realistic. In some cases 20% ash content has been reached.

In order to come to terms with these demands, Heimbach installs ATROSPEED on these machines. The open, easily conditioned felt is equally suited to pick-up and bottom felt positions and produces convincing running characteristics and longer life.

Summary

ATROSPEED is a multi-talented product for all demands and paper grades. In combination with the correct amount and fineness of batt it is a guarantee of fast start, good conditioning and highest dewatering efficiency.

A further advantage is that a change over from endless to seamed felts can be made without any problem. A proven ATROSPEED felt can be provided with a seam, so that the user can have the felt in which he has confidence combined with the advantages of a seam.



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