

# Fibrillating



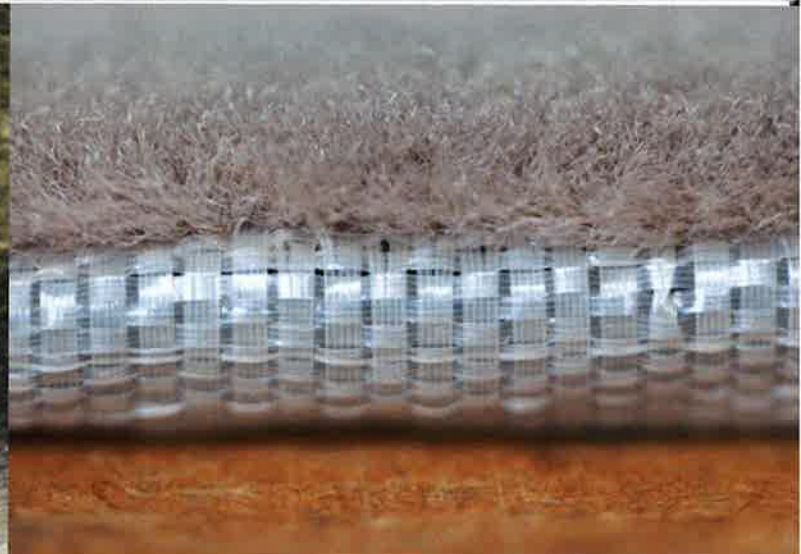
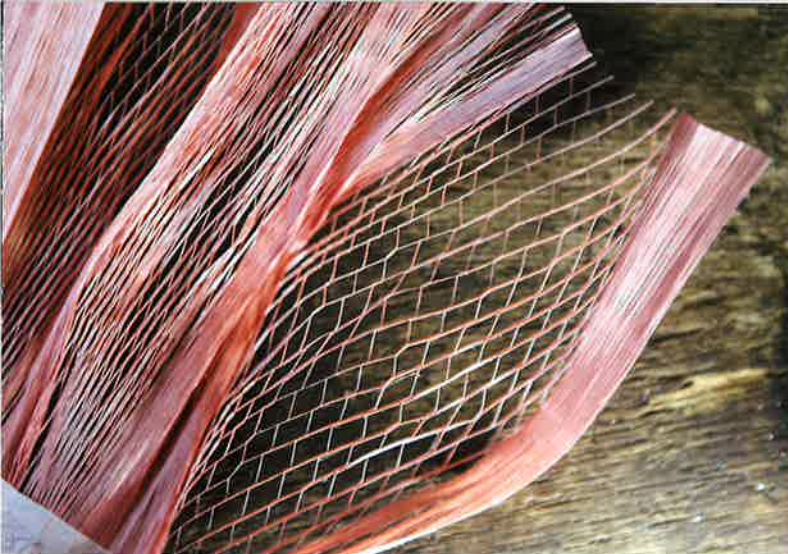
of films and film tapes



Leader in fibrillation  
applications for tape lines







We are the leading supplier of fibrillation tools – our innovative and customized products are designed to give customers the competitive edge they need in a highly competitive environment.

**Fibrillation tools must have a high quality standard and a long service life. Thanks to innovations and reliability, we enjoy the trust of leading machine and film manufacturers who value our products for their individual applications.**

**Original equipment and retrofit kits.** Burckhardt fibrillating rollers with replaceable needle bars are integrated as standard in the fibrillators of the tape lines by all leading machine manufacturers. The compact design of the roller also allows subsequent installation in other systems.

The needle bars can be easily changed directly on the machine without removing the roller, which reduces machine downtime.

**Development and consulting.** Together with our customers, we analyze the requirements that arise from new applications and develop targeted parameters that lead to the desired result.

We will also be happy to advise you on process optimization and the integration of fibrillators into existing systems.

## Advantages of fibrillated products

- Easy processing
- Cost effective production
- Higher flexibility
- Higher elasticity
- Very good tensile strength
- Better abrasion resistance

### Applications

Fields of application of fibrillated films, foil tapes and fibers

- Primary carpet backing
- Artificial turf
- Ropes and ship ropes
- Sewing and harvest binding threads
- Packing cords
- Concrete mixed fibers

- Carrying strap
- Tapes for woven industrial bags (FIBC)
- PTFE staple fibers

### Technical possibilities

Burckhardt fibrillating rollers offer a wide range of possibilities to adapt to the requirements of different materials:

- Fibrillating rollers made of steel instead of bronze for higher pin bar density
- Surface hard chrome plated for longer life

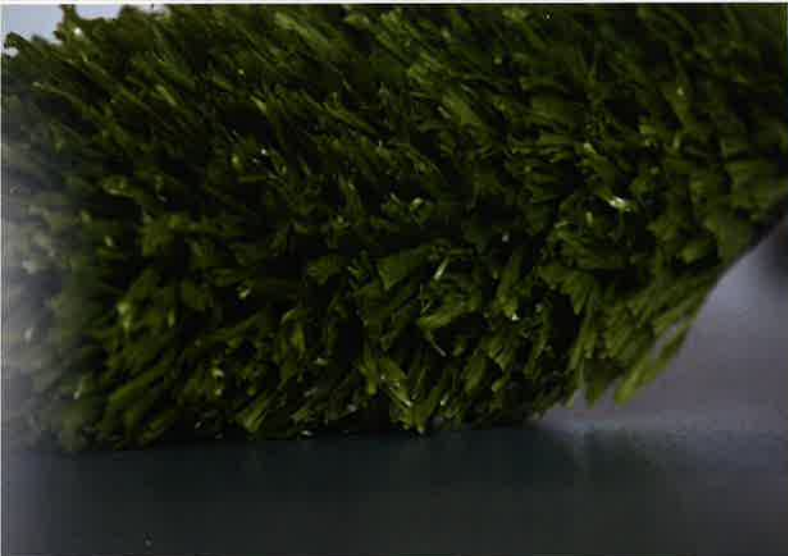
Fibrillating bars (spare parts for the rollers) open a wide range of possibilities:

- Max. Needle density per bar: 75 needles/cm
- Staggered arrangement of the bars (net structure / increase of the tearing force)
- Needle protrusion from approx. 0.5 – approx. 6 mm (standard: 1–2 mm)
- Multiple rows of needles per bar (stronger needles result in longer service life)

- Replacing the needle bars without removing the roller, directly on machine
- Different needle inclinations depending on the material
- Coated steel fibrillating strips for longer service life

In addition to Burckhardt fibrillation tools, we also manufacture:

- Separating combs
- Conventional fibrillation needle rollers (needle cylinder)
- Technical ceramic cutting blades for cutting the tapes
- Various needle bars and needle rings for other systems



### **„Shark“ fibrillating bars:**

Elastic or multi-oriented films, as well as films made of recycled material normally cannot be fibrillated. For this we have developed „Shark“ type fibrillating bars. They can be used in the existing Burckhardt fibrillating rollers instead of the conventional bars. They are equipped with special flat needles that allow fibrillation of elastic PP and PE films.

This innovation is protected by international patents.

Benefit from our know-how - we consult you with pleasure!

For further technical details please note our dimension sheets. If these are not attached, they can be downloaded from our website [www.burckhardt.com](http://www.burckhardt.com).

Send us your detailed request best together with sample material or call us. We will be happy to help with the compilation of the necessary equipment.