

ReAirFINE – Airflow-based fibre fineness measurement method for bast fibres

Problem / Motivation

- Bast fibres are playing an increasingly important role in the supply of raw materials, complementing cotton
- Test methods developed for other natural fibres such as cotton or wool are of limited applicability to bast fibres
- In contrast to existing cotton-specific test methods, a fineness measurement method is being developed for natural fibres with asymmetrical cross-section

Solution

- Given that the number of fibres that can be analysed is $n > 500$ per measurement, the air-flow method is considered
- This method is unrivalled in terms of practicality, both due to the equipment available on the market and the number of fibres analysed per sample and the time required
- By analysing bast fibres at various degrees of processing (coarse, fine or wet processing, followed by carding where necessary), the appropriate sample mass per test cluster is determined and the suitable size of the test chamber is established
- A suitable instrument system is selected and validated for the bast fibre fineness test

Project Launch

04/2026

Project Partner

Available for inquiries



Prepared bast fibre sample

Acknowledgement

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Contact: Dipl.-Ing./Dipl.-WI Ina Sigmund
Patrick Engel, M. Sc.

Phone: +49 371 5274-203
Phone: +49 371 5274-209

Email: ina.sigmund@stfi.de
Email: patrick.engel@stfi.de

www.stfi.de

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