

Press release**23.01.2020 | EN**

Hohenstein advances textile sustainability with microfiber analysis.

BÖNNIGHEIM (aba) Hohenstein has completed the development of its new method for analysing microfibre shedding from textiles. Using dynamic image analysis, the method quantifies shedding behavior and reveals previously unattainable data with practical implications for material development throughout the supply chain.

The new method is the result of four years of research at Hohenstein, published in an [article by lead scientist Jasmin Haap](#). The research team developed, refined and validated an analytical method that goes beyond current approaches of measuring the shedded mass to quantify fibre count, length, diameter and shape.

Further analysis can reveal the distribution of these attributes and even generate separate results for cellulosic fibres (e.g. cotton) and non-cellulosic fibres (e.g. polyester). This analysis is currently available exclusively through Hohenstein.

With this level of detail, researchers can now quantify in more detail which types of fibre and material constructions contribute most to microfibre release, leading to informed decisions in development of more sustainable textiles that shed less.

Synthetic microfibres are tiny pieces of plastic released into water during mechanical stress, particularly washing. Wastewater containing microfibres eventually flows through sewage into

Editor:

- Hohenstein Laboratories GmbH & Co. KG
- Hohenstein Textile Testing Institute GmbH & Co. KG
- Hohenstein Institut für Textilinnovation gGmbH

Global Marketing & Sales

Hohenstein
Schlosssteige 1
74357 Bönnigheim
GERMANY
Phone: +49 7143 271-515
E-mail: press@hohenstein.de
www.hohenstein.com

Your contact person for this text:

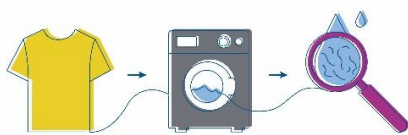
Isabel Schober
Telefon: +49 7143 271-708
E-Mail: i.schober@hohenstein.de

Sie können unseren Pressedienst honorarfrei auswerten. Bitte senden Sie uns ein Belegexemplar.

larger bodies of water. Along the way, synthetic microfibres attract harmful substances and pollutants from the environment, thus being able to reach sea life and entering the food chains of larger sea life and even humans.

Dynamic image analysis of wastewater is non-destructive, allowing additional tests, such as filtration, to be performed for further analysis. Filtration, the most common method to date, involves filtering the wastewater from textile laundering, then weighing the remaining particles.

In November 2019, Hohenstein joined the Microfibre Consortium (TMC) as a contributing research member.



Microfibres are tiny pieces of plastics released in the water during mechanical stress, particularly washing. Wastewater eventually flows into sewage and larger bodies of water, remaining indefinitely or entering the food chain.

© Hohenstein

About Hohenstein:

With over 1,000 employees in more than 40 branches, offices and laboratories worldwide, Hohenstein is an internationally oriented testing services provider and research partner in the textile industry. You can find more information about Hohenstein and the company's microfibre analysis services at www.hohenstein.com.