

News release

For better recycling of textiles: Reliably identify textile materials on the spot with trinamiX mobile NIR spectroscopy

- trinamiX introduces handheld solution for convenient identification of more than 15 textile types and compositions.
- Additional application for carpet material identification.
- First public live demonstrations at the Greener Manufacturing Show in Cologne and Plastics Recycling World Expo 2022 in Cleveland, USA (both from 09.-10.11.2022).

November 08, 2022 – Ludwigshafen am Rhein, Germany – trinamiX, a leading provider of mobile spectroscopy and a wholly owned subsidiary of BASF SE, now enables flexible on-site identification of textiles. With trinamiX's Mobile NIR Spectroscopy Solution, more than 15 textile types and compositions can now be identified and thus better sorted. Even pieces made of material blends can easily be determined without damaging the material. The solution includes easy-to-use hardware with intelligent data analysis, an intuitive app for fast results, and an extensive customer portal where in-depth analyses and reports can be created.

trinamiX thus opens up new ways for customers from the textile industry to exploit additional potential in the field of textile recycling. Textile collection companies and organizations are equipped with an efficient tool that enables them to pre-sort goods according to quality and next processor. Recycling companies can improve the quality of the recycling process by continuously checking incoming goods. Textile manufacturers also benefit from mobile textile recognition: they can use spot-measurement at goods receipt to check if the delivered textiles are in conformity with the ordered quality.

"We are convinced that innovative solutions like ours make an important contribution towards a circular textile economy," explains Adrian Vogel, Business Development Manager at trinamiX GmbH. "Sorting is a key requirement for recycling and is largely done manually. Even experienced sorters cannot tell the difference between, for example, nylon 6 and nylon 6.6 just by looking at it or feeling it. This is where the handheld solution from trinamiX provides clarity."

The solution supports a wide range of common textile grades used in clothing, furniture and household goods, for example: acrylic, cotton, nylon 6/6.6, polytrimethylene terephthalate (PTT), polyester, polypropylene (PP), silk, sisal, viscose and wool. Textiles made from more than one material can also be identified. These include blends based on acrylic, cotton, nylon, polyester, silk or wool.

For the special requirements of recycling carpets, trinamiX has developed a dedicated application. It supports all common textile and plastic types used in carpets such as nylon 6 and nylon 6.6, polyacrylonitrile (PAN), polyethylene terephthalate (PET), polypropylene (PP), polytrimethylene terephthalate (PTT) and wool. The carpet application is the first one within trinamiX's Mobile NIR Spectroscopy Solution to work offline. This means that the identification

of carpet materials can be carried out when there is no connection to the internet. The data is evaluated and stored directly on the device and smartphone. A later upload to the customer portal is possible without any problems.

trinamiX will present the new applications on November 9 and 10 at two trade shows: *Greener Manufacturing Show* in Cologne, Germany (booth 5017 in hall 10.1) and *Plastics Recycling World Expo* in Cleveland, USA (booth 635).

About trinamiX's mobile near-infrared spectroscopy solution

trinamiX's NIR spectroscopy solution combines robust hardware with intelligent data analysis and a mobile app. NIR spectroscopy is a proven technology that trinamiX has converted into a portable format for on-site analysis. trinamiX relies on cloud-based data processing, which ensures continuous further development of the solution – there is no need to replace the hardware. More information: trinamiXsensing.com/textiles.

About trinamiX

trinamiX GmbH develops cutting-edge biometric and mobile NIR spectroscopy solutions, which are used in both consumer electronics and industrial designs. The company's products enable humans and machines to better capture data with the goal of understanding the world around us. This results in improved decision making as well as stronger biometric security. trinamiX, based in Ludwigshafen (Germany), was founded in 2015 as a wholly owned subsidiary of BASF SE. The company employs over 200 people worldwide and holds more than 300 patents and patent applications.

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