

# Technical textile markets: product developments and innovations, 3rd quarter 2013

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## Abstracts

This report provides information on the latest developments in biodegradable cigarette filters, environmentally friendly fabric treatments, fabrics for technical textiles, natural fibre reinforced composites, new materials, new processes, and technical textiles for medical equipment. The report includes news from the following innovative companies and organisations: Bayer MaterialScience, EMPA (Eidgenössische Materialprüfungs- und Forschungsanstalt -- the Swiss Federal Institute for Materials Testing and Research), Greenbutts, Mount Vernon Mills, Nonwovens Innovation and Research Institute (NIRI), NPSP Composites, STBL Medical Research (STBL), Tanatex, Teijin Aramid, Van.Eko, Waarmakers and Zeo.

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### SUMMARY

#### BIODEGRADABLE CIGARETTE FILTERS

Greenbutts has developed a new biodegradable cigarette filter made from flax, hemp and cotton

#### ENVIRONMENTALLY FRIENDLY FABRIC TREATMENTS

Tanatex has developed two new water repellent fabric treatments which are free from fluorocarbons

#### FABRICS FOR TECHNICAL TEXTILES

Mount Vernon Mills has developed a new fabric and a new fabric finish for use in the manufacture of protective workwear

Teijin Aramid has developed a new aramid fabric called Twaron CT

Teijin Aramid has developed a new Twaron fabric called Twaron T765

#### NATURAL FIBRE REINFORCED COMPOSITES

Van.Eko and Waarmakers have developed an electric scooter made from flax-reinforced composites

#### NEW MATERIALS

Zeo has developed a new material which is made from recycled cellulosic fibres and water

#### NEW PROCESSES

Bayer MaterialScience has developed a new process for producing polyether polycarbonate polyol from CO<sub>2</sub> for use in the manufacture of polyurethane

#### TECHNICAL TEXTILES FOR MEDICAL EQUIPMENT

EMPA and STBL Medical Research (STBL) have developed a prototype of a device

which can monitor a person's blood pressure continuously

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Figure 1: Image showing base armour without spall liner

Figure 2: Image showing base armour with spall liner made using Twaron T765

Figure 3: Image showing the Be.e scooter charging

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