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PRESS INFORMATION

Flame-retardant polyamide fibers for maximum safety requirements

When it comes to protecting people and materials, the demands on textile solutions continue to increase. Especially in areas such as protective apparel, public transportation, and industrial applications, materials are required that are not only mechanically robust and durable but also provide reliable and long-lasting flame retardancy. EMS-GRILTECH meets these requirements with innovative polyamide fibers that combine safety and performance in a single material.

Under the trade name NEXYLON FR, the company offers flame-retardant polyamide fibers specifically developed for demanding applications. The key advantage lies in their inherent flame-retardant properties: the flame-retardant additive is incorporated directly into the fiber during the spinning process. As a result, the flame retardancy is permanent, with no washing out or migration – even under intensive use and repeated cleaning cycles.

In addition to their reliable flame-retardant performance, NEXYLON FR fibers are characterized by high abrasion resistance. This combination significantly extends the service life of textile products and reduces wear in daily use. At the same time, comfort is improved, which is particularly important in protective and workwear applications. The fibers can be flexibly blended with other materials such as synthetic fibers, cotton, or wool, enabling tailored solutions for a wide range of requirements.

Versatile applications from protective apparel to transportation

The range of applications is broad. In protective and workwear, the fibers provide a high level of safety while maintaining comfort. In technical applications such as cable and hose coverings, they offer additional protection against heat exposure. Flame-retardant textiles are also used in public transportation – such as in aviation, rail, buses, and marine applications – for seat covers and carpets to meet stringent safety standards. In addition, the fibers are suitable for home textiles such as curtains and carpets, where both functionality and aesthetics are required.

With NEXYLON FR, EMS-GRILTECH demonstrates how innovative material development can meet the highest safety requirements. The combination of permanent flame retardancy, high mechanical durability and flexible processability makes these fibers an innovative solution for modern textile applications.

Contact for technical inquiries

Marcel Moser

EMS-GRILTECH

Tel.: +41 81 632 72 93

E-Mail: marcel.moser@emsgriltech.com

Contact for the press

Jasmin Walt

Head of Communication

Tel.: +41 81 632 72 50

E-Mail: jasmin.walt@emsservices.ch