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MEDIA INFORMATION

EMS-GRILTECH – Worldwide Represented

EMS-GRILTECH is a Business Unit of EMS-CHEMIE AG which is part of the EMS-CHEMIE HOLDING AG (www.ems-group.com).

The corporate offices, research and development, technical service centre and production facilities are located in Domat/Ems (Switzerland). Additional production plants and technical service centres are located in Neumünster (Germany) and Sumter (USA). Further sales offices and customer service labs are located in Osaka (Japan), Hsin Chu (Taiwan) and Suzhou (China). EMS-GRILTECH is represented worldwide by our own sales companies or agents.

EMS-GRILTECH – Polymers for Exceptional Demands

We manufacture and sell GRILON, NEXYLON and NEXYLENE fibers and GRILTEX hotmelt adhesives. We have developed these polymer materials and additives into outstanding specialty products for technical demanding applications. In this way we create added value for our customers as they can also enjoy success in their own markets only through continuous improvement.

EMS Thermoplastic Hotmelt Adhesives

Our specially designed hotmelt adhesives are used in a wide range of applications such as automotive, filtration, home textiles, apparel interlinings, packaging, transfer labels and medical. The development of new polymers creates opportunities to enter new markets for hotmelt adhesives outside the field of textiles.

Metal, glass, PVC and other smooth-surfaced materials are examples of new applications where thermoplastic hotmelt adhesives are used.

New application areas are composite materials where GRILTEX products are used as matrix adhesives or in order to fix the carbon fibres.

We are working continuously with our customers on market-driven solutions.

Our products fulfil all requirements for environmental compatibility, recycling and fast process cycle times. FDA approval as well as REACH conformity is the added benefit of GRILTEX products.

Specialty Fibers from EMS

GRILON are technical fibers and fusible bonding yarns. EMS-GRILTECH focuses on the production of technical speciality fibers made from copolyamides and copolyesters, bicomponent fibers and abrasion resistant polyamide fibers e.g. for the paper machine industry. Using our thermoplastic separation and bonding yarns, knitted fabrics can be separated or textile and composites parts can be bonded. This leads to shorter production time, technical improvement and lower unit costs.

NEXYLON are technical fibers made of polyamide (PA66) for high demanding nonwovens and spun yarns.

NEXYLENE is a high performance fiber for hot gas filtration made of polyphenylene sulfide (PPS).

NEWS Presented at Techtextil 2013

Highly Flexible GRILTEX Copolyester Adhesives

The newly developed highly flexible GRILTEX copolyesters are suitable for textiles with soft touch as well as for technical applications with high bonding requirements. These copolyesters are available in a melting range from 100-150 °C. High viscosity versions can be used for the manufacture of adhesive films and webs.

GRILTEX Copolyester to Bond on Smooth Surfaces

Our new GRILTEX copolyesters are used to bond smooth surfaces such as aluminium or other metal alloys as well as PET. The flexible character of these adhesives can compensate or minimize the tension between substrates with different expansion coefficients. GRILTEX copolyesters are available with different viscosities in the melting range of 120-150 °C.

Read more: http://www.emsgriltech.com/griltech/copolyester_en/

GRILTEX for Composites

EMS-GRILTECH will show a new product group of GRILTEX copolyester for reinforcement of unidirectional tapes as well as for stabilizing of multiplies woven or knitted fabrics. In addition the mechanical strength of the composite material can be highly improved in comparison to other usual binders.

Impact strength, heat resistance and transparency are the essential benefits to apply GRILTEX polyamide to organ sheet production.

These products are available in granular or powder form or as a suspension.

Applying the suspension is adding value by a homogenous distribution of the mono-dispersed particles within the layers of the carbon fiber. This advantageous behavior results in higher impact strength.

Read more: http://www.emsgriltech.com/griltech/composites_en/

NEXYLON FR for Protective Apparel and Workwear

With NEXYLON FR, EMS-GRILTECH is bringing the world's first flame-retardant polyamide fiber onto the market. Using this fiber, the working life of flame-resistant protective work clothing can be significantly increased. Additional interesting applications include different carpets.

Read more: http://www.emsgriltech.com/nexylonFR_en/

NEXYLON HT a high Tenacity Fiber

HT stands for High Tenacity. NEXYLON HT is a new polyamide fiber with high tenacity. It is mainly used to improve the abrasion resistance of cotton fabrics. With NEXYLON HT not only the stress resistance of the fabric can be improved also the working life can be extended.

GRILON Fibers and Yarns for Composites

EMS-GRILTECH presents a large range of products as fibers, yarns and adhesives for composites. These products are used as production aids, as additives, as matrix or fiber reinforcements in composite parts.

GRILON Bicomponent Fibers for Stabilization of Wood Insulation

Together with a large plant manufacturer EMS-GRILTECH has developed a new bicomponent melt bonding fiber for the stabilization of wood fiber insulation as flexible batts or rigid boards. The advantage of the fiber is the high bonding strength with the

wet wood fiber and the low activating temperature with steam. With high energy efficiency the material can be activated quickly.

GRILON Bonding Yarns for Composites

For the reinforcement of unidirectional tapes as well as for stabilizing of multiply woven or knitted fabrics, EMS-GRILTECH has developed special GRILON yarns. These products are mainly used in the RTM process (resin transfer moulding). The impact strength of the final composite will be strongly improved.

NEXYLON Coarse Fibers for Abrasives

The production of coarse fibers > 100 dtex is a demanding technology. Our new coarse polyamide fibers (PA66) are preferred in high quality abrasives. The fibers are extremely resistant against cleaning agents and chemicals and exhibit long continued abrasion resistance. The fiber remains strong during manufacturing and end use.

NEXYLENE for Nonwovens with Food Contact

NEXYLENE is a fiber made of polyphenylene sulfide (PPS), which is very heat resistant and mainly used in hot gas filtration. A new application is a nonwoven in the bakery with food contact. With our amorphous PPS fiber type new felt constructions and simplified manufacturing processes are possible.

EMS-GRILTECH, creative - prompt - reliable

Working closely with our customers enables us to continue to develop and manufacture new and innovative products that satisfy changing market requirements. Technical developments in our service centres and at customer's facilities and outstanding customer service are all key to our continued success.

Visit us at: Techtexil 2013 in Frankfurt
 Hall 3.0, Booth A65
 Contact: Martin Bill

EMS-CHEMIE AG
Business Unit EMS-GRILTECH