

PRESS RELEASE

High-Quality Knitted Fabrics for multiple applications

Technical and Heating Textiles produced by roma

BALINGEN (ri) **Since its foundation in 1958 roma is specialised on the production of high-quality knitted fabrics. 40 modern round knitting machines are producing these fabrics. The fabrics are certified according to OEKO-TEX® Standard 100. At the Techtexil (Hall 3.1 Stand D81), roma presents a modular textile composite thermal insulation system (WDVS) as well as special acoustic fabrics and heating fabrics.**

The **modular thermal insulation system** can combine different functions in relation to various fields of application: heat insulation, surface heating, sound absorption and acoustic insulation as well as ambient light.

Especially in the design of ship cabins, in aircraft construction, renovation of old buildings or tiny houses you can see the benefits of the new thermal insulation system. Besides of the integration of many different functions it includes light weight and easy processing as well as any size and shape in connection with an aesthetic surface. The surface can be customized individually with different fabric structures, colors or textile printings.

For consumer electronics and the automotive industry roma has developed special **acoustic textiles**. These fabrics offer a high sound permeability by a simultaneous view density. Therefore they are optimal for the cloth-covering of loudspeakers and complete Dolby-Surround-Systems. If wished they can be produced also with infra-red permeability to allow the use of remote controls. Roma is also able to cover wooden frames, plastic panels or metal grids with its knitted fabrics by using different techniques of cloth-covering.

Even in the fields of architecture and fair building acoustic textiles are more and more used. The sound permeability and the view density are modified according to the different applications. With a three dimensional design (spacer fabrics) it is possible to reach a high sound absorption. With the integration of spacer fabrics in wall elements the noise level for example in offices or restaurants can be reduced.

The result of several years of research and development is an **elastic electric heated knitted fabric**. A flexible conductive yarn is knitted in a round knitted fabric with a patented production method. The fabric is contacted by a thin woven metal or textile band. The fabric reaches temperatures of 30°C up to 100°C in the low voltage area of 3 Volt to 24 Volt according to different applications. There exist no risk of current impulse and no electromagnetic fields. Because of the high elasticity of the material, the fast heating, the homogeneous heat distribution and the various possibilities of fabric design there are many different possibilities of use for the knitted heated fabric. A mattress for people allergic to dust mites prevents the settlement of dust mites. A textile patient heating system for hospitals ensures that patients do not suffer from hypothermia during operations. The fabric neutralizes the cold emission in mobile homes and caravans and provides a comfortable warmth for their interior. With special adapted battery packs a mobile heatable horse blanket, a heated ski helmet and heated vests or jackets are realized.

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For more information: www.roma-strickstoffe.de

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	<p>Demonstrator of a thermal insulation composite system with heat insulation, surface heating, sound absorption and acoustic insulation as well as ambient light.</p>
	<p>Loudspeakers with acoustic fabrics made by roma Picture: © roma</p>
	<p>Cover of a sound system with roma knitted fabrics Picture: © LOEWE</p>
	<p>Window and wall covering for caravans with heatable textiles Picture: © CampCo GmbH</p>
	<p>Heated mattress for allergy sufferer Picture: © © Hohenstein Institute</p>
	<p>Patient warming system for hospitals Picture: © © Hohenstein Institute</p>
	<p>Heated ski helmet Picture: © Hohenstein Institute</p>
	<p>Heated mobile horse blanket Picture: © roma</p>