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**EMC shielding solutions for railroad technology:**

**Fabric over foam gaskets from MTC meet DIN EN 45545-2 for applications in rail vehicles**

As a leading manufacturer of standard and customized EMC shielding solutions, MTC Micro Tech Components GmbH also offers fabric over foam gaskets for railroad technology. In addition to UL 94-VO certification, they also meet the fire protection standard DIN EN 45545-2:2013 for use in rail vehicles. The rectangular, square or semicircular gaskets are used in practice, for example, for the electromagnetic shielding of control cabinets.

**High fire protection requirements in rail vehicles**

In addition to high quality criteria with regard to EMC shielding, materials used in rail applications must meet extensive fire protection requirements in order to adequately protect passengers and personnel and enable effective evacuation and rescue in emergency situations. For this reason, the MTC fabric over foam gaskets were tested by an independent laboratory for the use in interior spaces (R22) in accordance with ISO 4589-2 (oxygen index), ISO 5659-2 (smoke density) and NF X 70-100 / 600°C (toxicity), achieving Hazard Level 2. This means that the fabric over foam gaskets meet the fire protection regulations specified by the International Union of Railways (UIC).

**EMC fabric over foam gaskets with high shielding effectiveness**

In addition to the properties specially optimized for rail vehicles, the fabric over foam gaskets from MTC are also impressive in terms of their specific EMC properties, with excellent shielding effectiveness of >80 dB in the frequency range from 100 MHz to 18 GHz. The gasket profiles consist of a high-quality polyurethane foam core (45 kg/cm³) which is covered with an electrically conductive fabric with copper-nickel metal coating. The surface resistance is very low with a value of <0.05 Ω/□.

**Safe and flexible installation**

MTC fabric over foam gaskets for use in rail vehicles are available in a thickness range from 1.2 to 7.0 mm and are fitted with a non-conductive adhesive tape as standard. Optionally, they are also available with an additional removal aid or on carrier sheet. The material can be cut to the required length or modified according to individual needs. In addition, customer-specific dimensions can be produced at low cost.

**Industry-specific EMC and thermal management solutions**

MTC Micro Tech Components GmbH has been a manufacturer and solution provider for components in the field of EMC (electromagnetic compatibility) and TCP (thermally conductive products for thermal management) for over 25 years. In addition to the EMC fabric over foam gaskets for rail vehicles, an extensive portfolio of other standard products is available for this area of application. These include conductive elastomers in a wide variety of designs and profile variants that combine excellent electrical EMC properties with effective protection against environmental influences (moisture, dirt, dust, etc.). In addition, MTC offers gap pads for heat dissipation as well as SMD components such as contact springs, fasteners and board level shields.

**MTC Technical Development & Engineering Support**

For the successful implementation of demanding applications, customers and system developers benefit from comprehensive services, many years of experience and professional know-how in EMC and thermal management. From design-in consulting and development support for standard products to the complete implementation of customized product solutions, customers worldwide appreciate the personal commitment and expertise of the MTC team. With in-house development and testing capacities as well as production and sales locations in Germany, Hong Kong and South Korea, MTC Micro Tech Components GmbH convinces as a global supplier for almost all industrial sectors - from prototype to large-scale production

**Direct link to the product:**

<https://www.mtc.de/en/emc-shielding-materials/fabric-foil-over-foam-gaskets>

**All features and product benefits at a glance:**

* EMC fabric over foam gaskets for rail vehicles according to DIN EN 45545-2
* Laboratory tested for indoor use (R22) according to ISO 4589-2 / ISO 5659-2 / NF X 70-100 (600°C)
* Suitable for hazard level 2
* Meets fire protection regulations of the International Union of Railways (UIC)
* Electrically conductive copper-nickel fabric
* Polyurethane foam core (45 kg/cm³)
* Material thickness: 1.2 to 7.0 mm
* Fitted with a non-conductive adhesive tape
* Available with removal aid
* Small parts available on carrier sheet
* Excellent shielding effectiveness >80 db@100 MHz - 18 GHz
* Temperature range: -25°C to 80°C
* Available profile shapes: Rectangular, square and semicircular
* Short delivery times due to own production
* Certified according to UL-94 V0

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**Company profile MTC Micro Tech Components GmbH:**

**Specialized full-range supplier**

Reliable protection against electromagnetic radiation and against overheating of components and machines - MTC Micro Tech Components GmbH, headquartered in Dillingen (Bavaria), is specialized in the production and sale of innovative components for electromagnetic compatibility (EMC) and thermal management.

Since its foundation in 1992, the company has experienced steady growth and now operates internationally as an accomplished full-range supplier of EMC shielding materials and thermal management products. Comprehensive customer support, short response and delivery times as well as the greatest possible flexibility through its own in-house logistics are among MTC's core competencies.

Since October 2011, MTC has been part of the globally operating discoverIE Group plc, a leading international supplier of customized electronics. MTC is an independent company within the group. Thanks to the synergies with the British group, MTC will continue to expand its international presence in the future.

**Customized individual solutions for the international market**

In addition to its headquarters in Dillingen a. d. Donau, MTC also maintains a sales office in Hong Kong and production facilities in South Korea and Dillingen.

The extensive MTC product portfolio includes both standard and customized products manufactured to high quality standards. MTC customers benefit from professional consulting services and first-class service and support.

MTC supplies companies worldwide in all sectors, such as automation, automotive, avionics, information technology, medical technology, telecommunications, consumer electronics and renewable energies. The innovative products reliably protect customers' equipment and machinery from malfunctions caused by electromagnetic interference and from overheating.

**Corporate principles and social commitment**

The company's success is guaranteed by an exceptionally high level of customer orientation and corporate planning based on healthy growth. That is why MTC attaches great importance to a trusting relationship with employees, customers and suppliers, characterized by reliability, loyalty and mutual respect.

Social responsibility also grows with success. With the production site in Dillingen in premises of the Regens-Wagner Foundation, MTC promotes the integration of disabled people into everyday working life.

MTC is certified according to ISO 9001 and ISO 14001 and meets all requirements for an environmentally friendly business.