

# Solutions for **acoustic** and **heat insulation.**



GASKETS

TECHNICAL TEXTILES

EXPANSION JOINTS

INSULATION

NEW MATERIALS

 **Frenzelit**

creating  
hightech  
solutions

# Acoustic solutions

## Innovations made by Frenzelit

Continuous improvement is essential in order to remain competitive in today's market. Frenzelit has extensive research and development facilities where new products are fully tested prior to introduction to the marketplace. Where customers provide time constraints we are able to offer timely customer support to ensure solutions are found and new technologies are implemented on time and within budget. These are the outstanding features of "innovations made by Frenzelit".

The innovations are based on the know-how we have acquired over many years as a manufacturer of technical textiles for high-temperature applications.

Our in-house production lines enable us to optimise not only the raw materials chosen but also their properties in accordance with the customer's requirements and the technical specifications.

The following standard materials are available from stock and are processed in our production of exhaust and intake pillows.

## Products

Fabric: AF 300 / AF 380  
AF 300 HT / AF 380 HT  
AF 390 HT  
AF 350 HTR  
AF 500 HTR

Needlemat: AM 30  
AM 35 HTS

Infill: isoGLAS® GT fibre  
isoTHERM® GTH fibre  
GT Basalt

Additional Protector: isoTECH® Compound

All products offered by Frenzelit are tested by independent certified institutes.

The above-mentioned materials are chosen in close cooperation with our customers, which guarantees the required product properties as well as optimum service life.

We take advantage of the input we receive in our constant contacts with both our customers and the world's leading manufacturers of gas turbines in the development of market- and product-oriented improvements and innovations.

The reliability of our products demonstrated in practical operation is the basis for approvals and specifications by well-known end-users.

GT Basalt by Fibrotermica



isoGLAS® GT / isoTHERM® GTH fibres





# Production

Cabling of glass fibre yarns for the production of our special fabrics.



In-house production of our AF fabrics for pillows.



In-house production of our AM needlemats and isoTECH® Compound.



The pillow fabrics are designed and finished in accordance with our customers' specifications.



Exact shape and density of the pillows secure easy and quick installation.



Optimised packaging and single labelling on the pillows ensure safe transport and installation.





isoTECH® Compound installation.



Exhaust silencer with pillow infill.



Exhaust splitter refurbishment.



Exhaust stack with silencers.



Siemens V 94.2 gas turbine in Middle East.



Siemens SGT5-4000 gas turbine in Qatar.

## Applications

**Power industry**

- inlet/exhaust silencers for
- gas turbines
- industrial turbines
- boilers
- HRSGs
- (heat recovery steam generators)

**Aviation industry**

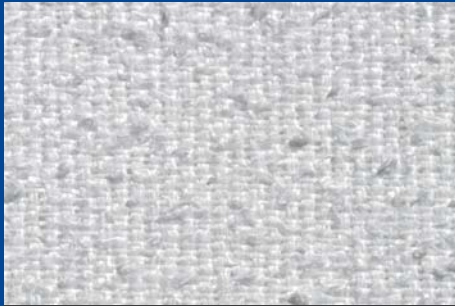
- inlet/exhaust silencers for
- engine test cells
- (hush houses)
- aircraft test facilities



## Fabric AF

### AF 300 / AF 380

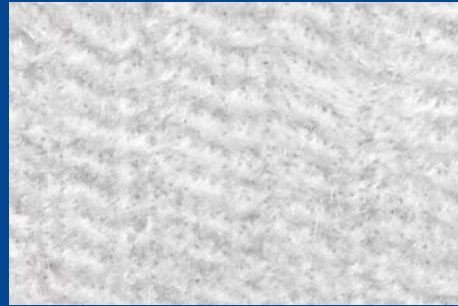
max. temperature resistance: 650 °C



## Needle mat AM

### AM 30 / AM 35 HTS

max. temperature resistance: 650 °C / 1100 °C



### AF 300 HT / AF 380 HT

max. temperature resistance: 800 °C



### isoTECH® Compound

max. temperature resistance: 690 °C

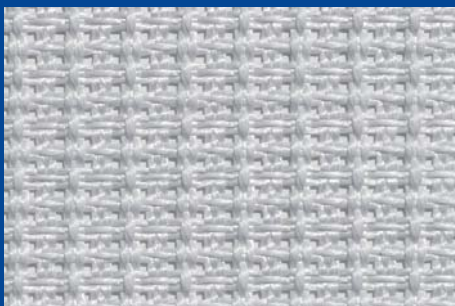
excellent wear resistance



### AF 350 HTR / AF 500 HTR

max. temperature resistance: 800 °C

excellent tensile strength



## Silk fabric

### isoGLAS® fabric 204

max. temperature resistance: 650 °C



Do you have any questions about your application?

The technical textiles information service will help you:

[textile@frenzelit.de](mailto:textile@frenzelit.de)

# Good for people and the environment.

Frenzelit has obtained certification that the company complies with the requirements of ISO 9001, ISO/TS 16949 and ISO 14001. This means complete transparency in all areas and a high degree of security for our customers.

## Quality management

ISO 9001  
ISO/TS 16949

## Environmental management

ISO 14001

## Further sealing and insulating products from Frenzelit

### Technical needlemats

for thermal and acoustic insulation and the filtration industry



### Technical tapes and woven fabrics

for sealing and insulation



### novaSEAL®

Boiler and tank rings



### Expansion joints

for gas turbines



### Technical cords and braids

for sealing and insulation



### Thermal blankets

to protect people and property



### Tadpole tapes, wound packings and layered tapes

for sealing applications



### Gaskets and Gasket Materials



GASKETS

TECHNICAL TEXTILES

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NEW MATERIALS

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