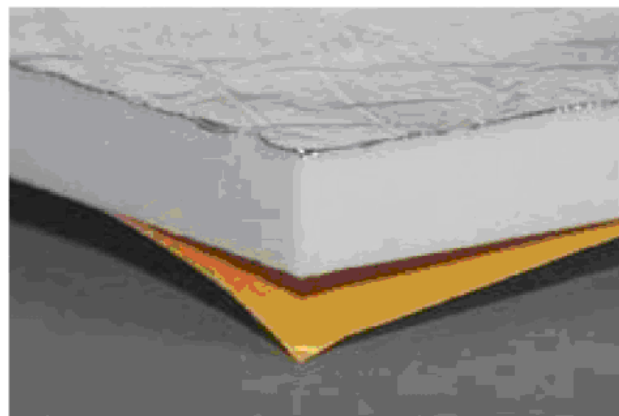


Noiseflex® MH is a flexible, open-cell foam material made of melamine resin, a thermosetting plastic from the aminoplast group. Its typical characteristic is the filigree, spatial mesh structure, formed by slender, easily deformed ribs.

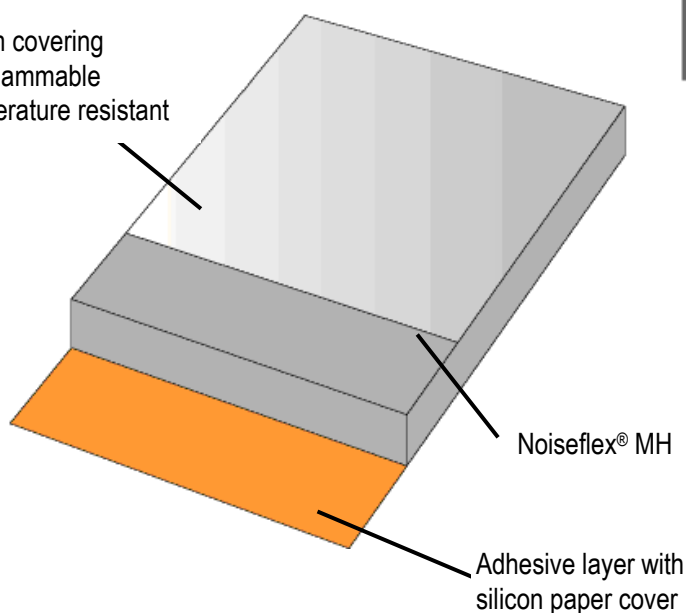
The Noiseflex® Freestyle MH Alu product comprises Noiseflex® MH, a non-flammable, heat resistant pure aluminium foil for durable protection against moisture and external influences such as dust, oil and petrol mist on one side, with the other side self-adhesive.

Noiseflex® Freestyle MH Alu is free of silicone after removing the adhesive covering paper.



Aluminium covering

- non-flammable
- temperature resistant



Noiseflex® Freestyle MH Alu has a wide range of attractive features. The salient quality characteristics are:

- good thermal insulation properties
- high temperature resistance
- good fire protection properties
- reflects radiated heat
- light weight
- protects against ageing and weathering
- protection against moisture, spray and condensation
- protection against dirt and dust
- protects against oil, fuel and grease
- easy to clean

The aluminium foil is largely resistant to chemicals and corrosion and blocks diffusion.

Other versions, e.g. without self-adhesive coating, with aluminium coating on both sides, or with also aluminium coatings on the narrow sides are also available. Please contact us for information.

Supplementary products:

For covering the narrow sides also with aluminium, the aluminium covering is available as self-adhesive strip on request. Different widths are possible.

Application areas:

The aluminium foil is largely resistant to chemicals and corrosion and blocks diffusion. This renders Noiseflex® Freestyle MH Alu ideal for vehicle cabin cladding and for machine cladding.

Storage:

With proper storage, i.e. covered and in the original packaging and a storage temperature of 15 to 25 °C at a relative humidity of 40 to 60 %, the shelf life is 12 months.

Processing:

To achieve proper bonding, the surface must be firm, dry and free of dust, oil and grease.

We recommend cleaning metals and plastics with one of our COSMOFEN cleaners before gluing. Check the surface for compatibility with the cleaner / self-adhesive layer.

Gluing should be done carefully, since no correction is possible after the self-adhesive layer has come into contact with the surface.

Whilst processing, ensure adequate pressure and avoid creating air bubbles.

Physical characteristics:

The attractive range of characteristics is listed in Table 1. One of the most important characteristics is the low weight together with the good acoustic and thermal insulating properties.

Tab. 1: Technical Data:

Raw density	7 – 10.5 kg / m ³ (depending on colour)	EN ISO 845
Tensile strength (average value)	> 100 kPa	ISO 1798
Elongation at break (average value)	> 18 %	ISO 1798
Thermal conductivity	$\lambda \leq 0.04$ W / (m·K) (depending on temperature)	DIN EN 12667
Temperature range	- 30 °C to + 80 °C, short term up to 120 °C (adhesive)	
Resistance against condensation and spray water	good	
Resistance against ageing	very good	
Resistance against UV and weathering	very good	
Resistance against softeners	good	

The Noiseflex® MH core lends the material high temperature and fire resistance. The long term thermal stability lends Noiseflex® MH pole position among the polymer foams. The good fire behaviour of the foam is reflected in the classifications achieved.

Tab. 2:

Fire behaviour:	Noiseflex® MH	
Germany	Building material class B1, flame-retardant	DIN 4102 – 1
Europe	Class B / C, depending on thickness	EN 13 501
USA	V – O, HF – 1	UL 94

The indicated values are based on orientating individual examinations. Tolerances up to 1.5 % in length and width are possible.

Attention! Important Note:

Above information are based on best present knowledge of current technology, but do not guarantee faultless processing of our products. The information is based on practical results of our tests, but is not binding and does not constitute warranties of characteristics in terms of Federal Supreme Court jurisdiction. Our information does not constitute a legally binding assurance of certain properties or suitability for a specific purpose. Supplementary information by our specialists are merely recommendations, for which no liability is accepted.

Due to the many possible applications of our products, we recommend subjecting the project to a thorough suitability test on original materials before release for further application.

Since our information are non-binding we do not warranty their correctness. For this reason we accept no liability for possible improper processing based on information submitted by our employees.

This technical data sheet replaces all previous versions and is valid until a new version is issued, or until Dec. 31, 2024. Please request the latest version after Jan. 01, 2025.

Dr. Hermann, Anwendungstechnik / Application Technology, Gingen / Fils