

## Product description

Hanno®-Tect AL 18 tp is an open-celled melamine resin foam laminated with an aluminum foil.

Foam	5 – 50 mm
Aluminum Foil	18 µm

## Product Properties

- High temperature resistance up to 140°C, short term up to 180°C
- low thermal conductivity
- favorable fire behavior
- good chemical resistance
- low bulk density
- excellent sound absorption

## Application

Vehicle construction, heat and sound insulation.

## Form of Delivery

blanks, stampings, self-adhesive, available in thicknesses of between 5 and 50mm.

## Processing

Only adhere to dry, fat-free and clean substrates. Press on well. The contact pressure which is required for full-surface contact has to be ensured.

Processing temperature: 18 – 25°C

You can easily adapt the material and cut it to size with a sharp knife.

## Special Instructions

The sorption behavior of the melamine resin in connection with the open-cell nature of the foam result in a change being made to the humidity content of the material depending in the ambient conditions. This comprises dimension changes of around ± 2% (on the basis of the mean humidity content). This behavior is to be taken into account during processing (pre-storage of the components in an application-related climate).

## Technical Data

Color	-	gray, surface aluminum
Fire Behavior	EN 45545-2: EN 13501 FMVSS 302	HL3, R1/R7/R17, BHRM* E SE
Maximum application temperature foam	DIN EN ISO 2578 (acc. DIN ISO 3386-1)	150°C
Maximum application temperature adhesive	-	140°C (4 weeks of permanent load, short term up to 180°C***)
Bulk density	DIN EN ISO 845	9 ± 1,5 kg/m <sup>3</sup>
Thermal conductivity foam	DIN EN 12667	< 0,035 W/m K (10°C, d = 50mm)
Low temperature stability	-	-40°C (applied)
Shelf life	-	9 months **

\* BHRM: Brandhaus Rhein Main

\*\*Storage environment: 5-30°C, dry, protected from ultraviolet radiation and weather, in original pack (or equivalent). Storage life for adhesive coated products

\*\*\* beginning thermal decomposition

## Hanno Werk GmbH & Co. KG

Hanno-Ring 3-5  
D-30880 Laatzen  
Germany  
Telefon: +49 5102 7000-0  
info@hanno.com  
www.hanno.com



# Hanno®-Tect AL18 tp

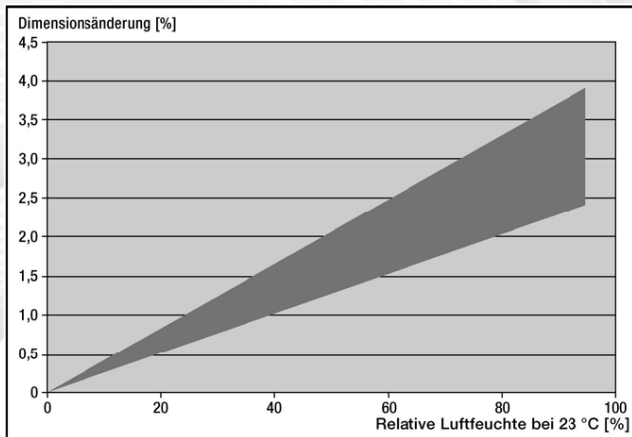


Diagram: Dimensional change depending on the air humidity with an ambient temperature of 23°C

Do not use Hanno®-Tect AL 18 outside/outdoor exposure. The Tect material has a mixed pore structure for manufacturing reasons. A maximum of 10 pores per m<sup>2</sup> with a diameter of between 5 and 15 mm can occur and do not give cause for complaint. If required, the material can be rendered hydrophobic and oleophobic by it being impregnated: →Hanno®-Tect-G+-phob AL18.

Foam materials tend to change their dimension when punched, cut, pressed, wrapped, installed, etc. Generally, the dimensional tolerance of DIN 7715-P3 can be maintained. If special requirements on the dimensional stability are important, please contact our customer service team

## Cleaning

No material pollution is to be expected. With self-adhesive parts, adhesive residues can be removed with petrol if necessary. The safety regulations for the cleaning agent used must be observed.

## Disposal

Hanno®-Tect AL 18 is manufactured without using hydrocarbons which contain halogen. The product does not pose a risk to water. Hanno®-Tect AL does not contain any propellants when delivered and is not subject to labelling pursuant to the German Hazardous Substances Ordinance.

## Safety Instructions

In view of the existing data and experience, the product is not hazardous material in the meaning of the Hazardous

Material Regulations and the corresponding EC directives. We recommend however that you take the same care and use the same hygiene as is customary with working materials. Suitable measures are to be taken in order to ensure that the result dust is not inhaled.

## Restriction of liability

Our General Terms and Conditions of Sales with the warranty conditions which you can refer to at [www.hanno.com](http://www.hanno.com), apply. This data sheet provides non-binding information without the assurance of guarantee. The stipulated instructions for use are to be adapted to the given conditions. The user is obligated to validating the suitability and application possibility of the product by testing it himself, so as to avoid failures for which we assume no liability. The right to make technical changes is reserved.

You can request the latest version of this datasheet from [info@hanno.com](mailto:info@hanno.com).

Hanno Werk GmbH & Co. KG

Hanno-Ring 3-5  
D-30880 Laatzen  
Germany  
Telefon: +49 5102 7000-0  
[info@hanno.com](mailto:info@hanno.com)  
[www.hanno.com](http://www.hanno.com)

