AODISI

FIRE TECHNOLOGY

产品资料与销售咨询

PRODUCT DOCUMENTATION & SALES CONTACT

INTERDENS ® - Technical Data Sheet-en

澳迪斯防火科技（廊坊）有限公司

Aodisi Fire Technology (Langfang) Co., Ltd.

销售及选型联系 / Sales & product enquiries

19931333348

492048031@qq.com

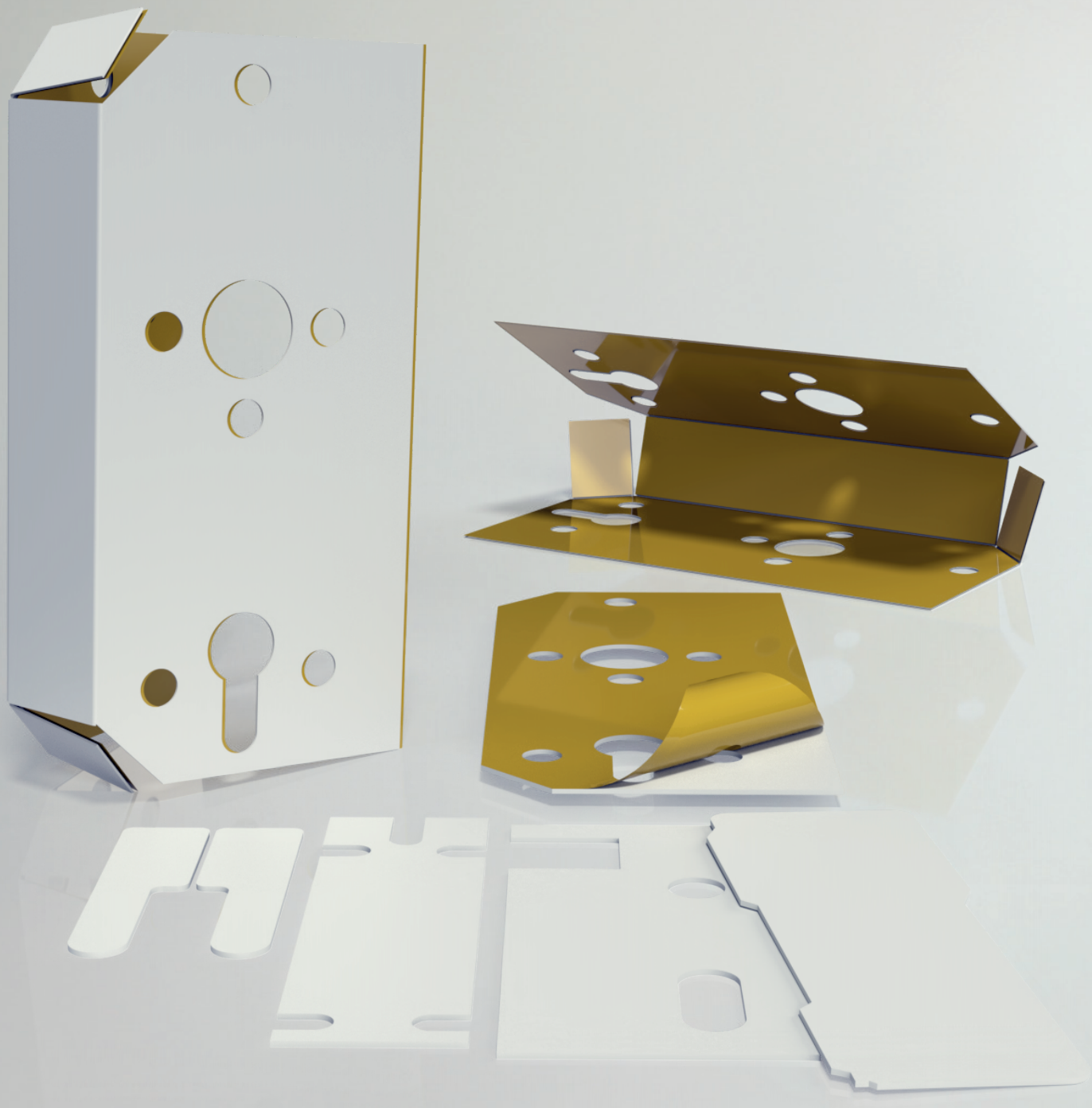
www.gmfireproof.com

以上为销售联系信息，不替代安全数据表中的应急联系电话。
原始技术内容及制造商、检测机构和证书签发信息见后续资料页。

Sales contact only; emergency contacts in safety data sheets remain applicable.
Original technical, manufacturer and certification details follow.

Technical Product Data Sheet

Interdens 5, 15 & 36



kuhnodice

Tech. Rev.: 1.0
Ling. Rev.: 1.0

Product description

Interdens 5, 15 and 36 are intumescent materials based on ammonium phosphate that make wood and wood-based materials more fire-resistant. When exposed to heat, Interdens 5, 15 and 36 begin to expand at temperatures of around 150 °C, with a second phase of expansion beginning at around 300 °C. This two-phase reaction process increases the level of fire protection significantly. The foam produced forms a protective layer of thermal insulation that hermetically seals joints and gaps and prevents the passage of flames, smoke and hot gases. The protective layer adapts perfectly to gaps and effectively protects against the spread of fire. Interdens is available in the form of strips and seals.

Verification

- ETA-16/0811: 10 March 2021

Properties

- Intumescent material based on ammonium phosphate
- Expands up to 95 times its initial thickness
- Protects wood and wood-based building elements
- Forms a pressure-resistant, non-combustible foam layer
- Highly flexible and easy to work (cut, punch)
- Free from asbestos with non-toxic pyrolysis gases

Fields of application

- Types 5 and 15: protecting flat or curved surfaces for enhanced fire resistance
- Cut strips: sealing gaps in partition walls and around inspection windows
- Punched form: protecting bolt locks, hinges and built-in metal fittings in wooden constructions
- Type 36: fire-proof seals for recesses in structural building elements, such as between the door leaf and frame

Features

No expansion pressure, expands at approx. 150 °C (phase 1) and 300 °C (phase 2).

Technical data

Composition	Foaming material based on ammonium phosphate
Material structure	Flexible (types 5 and 15), semi-rigid (type 36)
Bulk density [kg/m³]	Type 5: 0.85 Type 15: 0.96 Type 36: 1.1
Area density [g/m²]	Type 5: 420 g/m² to 600 g/m² Type 15: 800 g/m² to 1120 g/m² Type 36: 1900 g/m² to 2500 g/m²
Start of reaction [°C]	150
Expansion rate [x times]	25 to 95 (after 20 minutes at 350 °C)
Intumescent layer	Microporous, heat-resistant foam
Expansion pressure [N/mm²]	Material expands without any pressure
Direction of expansion	Three-dimensional
Surface finish	Smooth
Storage	Store in a dry and well ventilated location at room temperature (20 °C ±5 °C) and with normal humidity (50–70%). Protect against UV radiation. The results of the testing at MPA Stuttgart (in accordance with DIN 4102) confirm that the efficiency of Interdens remains unchanged following 10 years of storage at a dry location.
Shelf life	Interdens with self-adhesive fixture (SA version): can be stored for max. 12 months from the delivery date when stored in its original packaging under the conditions stated above

Design variants

Available in boards and strips

Colour variants

Type 5 and type 15: white

Type 36: brown, red, white

Processing information

1. Surface preparation:
   - The surface to which the Interdens is to be attached must be clean, dry and free from dust, grease and wax to ensure reliable adhesion.
   - Remove poorly adhering paint layers and slightly roughen smooth surfaces. Coat metal elements with a suitable rust inhibitor.
2. Installation and fixing:
   - Interdens can be attached with glue, rivets or double-sided adhesive tape. The use of double-sided adhesive tape is recommended because it is easier to install.
   - For mechanical protection and to channel its expansion in the event of fire, Interdens is preferably to be installed in a recess.
3. Colour and compatibility:
   - Before applying a coat, check its compatibility with the material to ensure the coat does not impair the fire behaviour properties.
4. Safety notes:
   - Follow the usual health and safety provisions for the workplace.

Shear force	Tensile force	Peel force	Splitting force



Strain less critical over whole areas

Prevent such strain through design

Contents of a package/set

Interdens punched parts and strips are packed in plastic bags or wooden/cardboard boxes.
Interdens 5: 100 boards/pallet
Interdens 15: 200 boards/pallet
Interdens 36: 100 boards/pallet

Delivery forms

Standard lengths [mm]	Types 5, 15, 36: 2040
Standard widths [mm]	Types 5, 15, 36: 1000
Standard thicknesses [mm]:	Type 5: 0.6 Type 15: 1.0 Type 36: 2.0

Tolerances [mm]

±0,5 mm cutting tolerances

Note

Water-resistance: not stable in continuous contact with water.