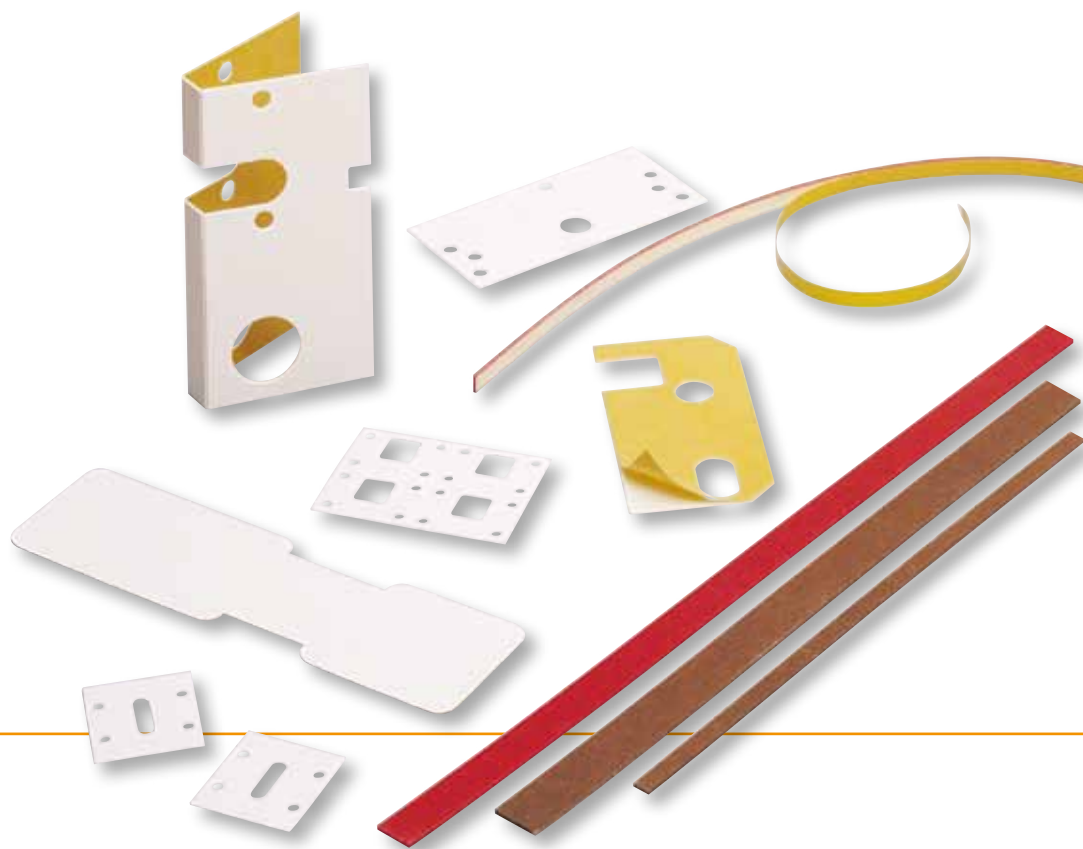


Intumescent sheets & seals

GB / 1.5 / Rev. 3

INTERDENS[®] 5, 15 & 36



odice
PASSIVE FIRE PROTECTION



Product description

INTERDENS is an intumescent material made from ammonium phosphate which protects and enhances the fire resistance of wood and wood-based materials. It is available in semi-rigid boards and seals.

When exposed to fire, **INTERDENS** rapidly produces a large quantity of microporous, heat insulating foam, thereby protecting the treated material from fire. It hermetically fits into the gaps formed by distortion and prevents flames, smoke and gases from passing between two construction elements.



INTERDENS type 15 and type 36.



INTERDENS type 36 before and after exposure to fire

Features

INTERDENS presents the following characteristics:

- Types 5 and 15 are flexible, type 36 is semi-rigid.
- Intumescence starts at 180°C.
- Does not create expansion pressure.
- Forms a foam with multidirectional expansion.

Technical data

Physical properties of INTERDENS

	Type 5	Type 15	Type 36
Thickness	0,6 mm*	1 mm*	2 mm*
Tolerance on thickness	- 0,1 / + 0,2 mm*	- 0,1 / + 0,2 mm*	± 0,2 mm*
Weight	420 to 550 g/m ²	800 to 1120 g/m ²	1900 to 2300 g/m ²
Colour	White	White	Brown, red, white

Water resistance: for interior use, not stable in permanent contact with water.

Behaviour of the foam:

INTERDENS foam reacts without expansion pressure.

Start of intumescence	180°C
Expansion coefficient	≥ 40 x initial thickness* (at 350°C after 20 minutes)

*Dr. Wolman GmbH specifications. Each manufacturing batch is controlled before leaving the factory and on a regular basis by the "Deutsches Institut für Bautechnik" in Berlin (INTERDENS 36: Approval number Z-19.11-484) - (INTERDENS 5 & 15: Approval number Z-19.11-483)

Applications

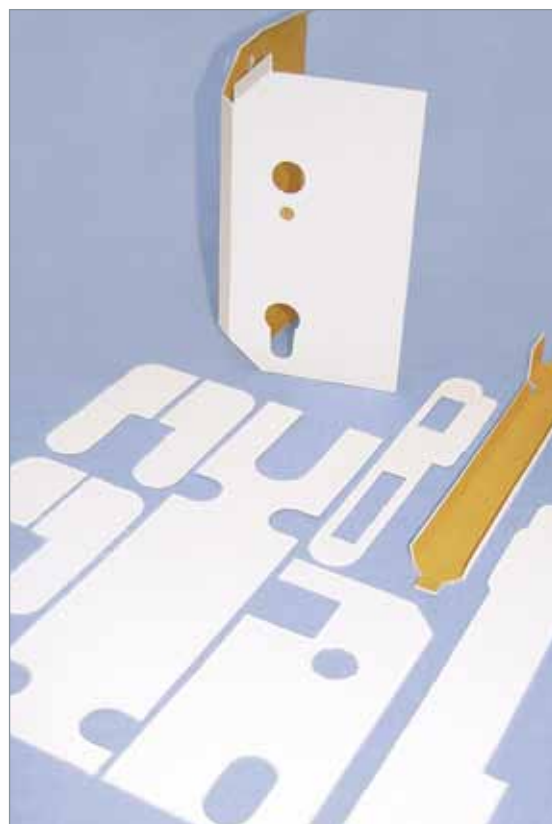
Because of their size and sheet thickness, **INTERDENS** types 5 and 15 are suitable for protecting flat or curved surfaces by enhancing the fire resistance of construction elements.

In the form of cut strips, **INTERDENS** types 5 and 15 provide a means of creating a seal where gaps are reduced (partitions, the surrounds of inspection windows etc.). When stamped, **INTERDENS** types 5 and 15 are used to protect the casings of latch locks and hinges, built-in metal fittings, thus limiting and mitigating combustion of the wood.

INTERDENS type 36 is used as fire resistant seals placed in grooves in structural components (ex: between the door leaf and the frame or wooden chassis).



Example of application: protection of a lock casing with INTERDENS 15.



Protection for metal fittings and hinges made from INTERDENS 15.

Product range

INTERDENS Type 5	INTERDENS Type 15	INTERDENS Type 36
1000 x 0,6 x 2000 mm	1000 x 1 x 2000 mm	1000 x 2 x 2040 mm

Options:

Fabrication from sheets of all types of strips.

Stamping and fabrication of custom parts – tolerance : $\pm 0,5$ mm.

Application of a self-adhesive strip for installation (ref: SA).

Long-term efficiency of INTERDENS

The long-term efficiency of the properties of **INTERDENS** has been proven in normal climatic conditions.

The results of tests conducted by the independent institution FMPA in Stuttgart (in accordance with DIN 4102) confirm that the efficiency of **INTERDENS** remains unchanged after 10 years of storage in a dry place.

Installation

The receiving surface must be free from dust, grease and any kind of wax. Remove poorly adhering paint, roughly sand smooth surfaces. Coat metal elements with an appropriate anti-rust treatment.

In order to ensure the mechanical protection of the seal, it is preferable to install it within a groove.

The seal can be fixed by gluing or stapling, but we recommend fixing by double-sided adhesive strip which is easy to use. This method of fixing requires the seal to be mounted to allow the adhesive strip to be correctly applied to the receiving surface.

Paint

Compatibility with a coat of paint, which should not adversely affect intumescence, is to be tested.

Packaging

INTERDENS is packed in wood or cardboard boxes.

Storage

INTERDENS boards and seals should be stored in a cool dry place.

Health and safety measures

Observe usual workplace health and safety rules.
Refer to the safety data sheet .

INTERDENS® is a registered trademark of Dr. Wolman GmbH

IMPORTANT: while the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data and information furnished by ODICE hereunder are given free of charge and ODICE assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk.



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