

inomat

The inorganic Nanotechnology



inomat

inomat

inomat gmbh

business areas

products

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contact

how to find us

The logo for inomat, with 'inomat' in a bold, lowercase sans-serif font. The 'i' and 'n' are orange, while the 'o', 'm', 'a', 't' are dark grey.

inomat GmbH's main aim is to offer to its customers the benefit of the latest findings of research in the field of functional coatings, surface refinement processing and binding materials. As a customer-orientated company we offer these directly to the customer at competitive prices.

inomat GmbH was founded by Dr. Axel Kalleder (BSc Chem.) in March 2001. It has taken the company less than three years to establish itself as one of the most important manufacturers in chemical nanotechnology.

The company produces and sells multi-functional binding and surfaces materials based on this technology.



Our young team consists of six colleagues who have 50 years of collective experience in researching and developing chemical nanotechnology.

"Working together with our customers we reach individualized system solutions."

This can be seen throughout the work process from demand specific development and guaranteed high quality production, through to on-site-advice during the installation of the product.

Our customers benefit from the fact that **inomat GmbH** is based on non-risk capital, being privately owned. As such it

carries out its own privately financed research and development.

Our findings are always incorporated into our products - even into those already well established.

"We see this as part of product care, contributing towards main-tenance of our customers' competitiveness."

„There is plenty of room at the bottom“
Richard P. Feynman, 1959

inomat

**as high performance
composites**

- mineral wool products,
stable at high temperature, flexible
- non flammable weather resistant natural
fiber composites

business areas
nanokomposite

**as functional coatings for
surface refinement**

- decorative coatings on glass ceramic and
metal
- fabrication of glasslike mirco- and
nanostructured surfaces
- corrosion protection at high temperatur on
metal
- impregnation of nature products

as basic materials

- "cold" oxid- and non toxic ceramic
- underfiller and adhesive for microelectronics
and optical waveguides

products
products

inowool[®]

nanocomposite for mineral and natural fibres

organic

- chemically and thermally durable
organic side chain

inorganic

- surface modified nano-particles
e.g. SiO₂

unique performance

- thermally stable
- flexible
- hydrophobic...
- no emission of toxic gases
- ecological
- non-flammable
- taylormade properties

Product examples

- binder for non-flammable mineral wool
(according A 1)
- binder for ceramic powders

products
products

inoflex[®]

**nanocomposite for micro-
and nanostructured
surfaces**

"near net shaping"

- by high-solid, but low viscous nanocomposites

continuous process

- structuring the inoflex films by flexible stampers

high variety of substrates

- glass
- metal
- polymere

high variety of structures

- Hologramms
- Fresnel-Lenses
- moth eyes
- light guiding structures
- light traps for Photovoltaic applications

products examples

- flexible CD
- resists for Si-structuring

products
products

inodecor[®]

nanocomposite for enamel-type of decoration

free of heavy metal oxides

- pure silica matrix
- non toxic ingredients
- excellent chemical durability

no melting step

- variety of pigments
- no loss of glass strength
- lowering of processing temperatures

variety in application

- on glass
- on metal
- on ceramics
- on polymers respectively
- spray coating
- screen printing...

product examples

- decorations for lamp shades
- screen printing pastes for
the decoration of oven front doors

products
products

inodur[®]

**nanocomposite for
individual
surface protection**

high variety of products

- anti-stick coatings for moulds
- corrosion protection coatings
- coatings with low surface energy

high variety of application

- water based varnish
- alcohol based varnish
- application by spray coating
- application by screen printing

product examples

- hydrophobic and oleophobic coatings for industrial use
- scratch resistant coatings for roadway illumination

products
products

inosil[®]

**dispersions of nano-particles
as basic materials
for our customers**

various dispersion media

- water based
- alcohol based

various chemical compositions

- based on silica
- individual pH
- incorporation of Al₂O₃, ZrO₂, TiO₂ ...

wet chemical application

- adjustable curing behaviour
- adjustable viscosity
(spray coating, screen printing...)
- excellent wetting and adhesion
on various surfaces

product examples

- corrosion protection on metal surfaces
- fire prevention coatings

inomat

references
references

AMO GmbH

Bosch und Siemens Hausgeräte GmbH

DaimlerChrysler AG

flexstorm GmbH

Glashütte Limburg

ItN Nanovation GmbH

Johnson Controls Headliner GmbH

Krones AG

Mettler Toledo GmbH

Prinz Optics GmbH

RUAG Components

Schott Jena^{er} Glas GmbH

Stöbich Brandschutz GmbH & Co. KG

URSA International

inomat

inomat GmbH

Böckweilerstraße 8

D-66440 Blieskastel

contact
contact

place of production

Saarpfalz-Park 1

D-66450 Bexbach

Telefon +49 6826-93440

Telefax +49 6826-934422

e-mail info@inomat.de

www.inomat.de

... by car

From motorway A6, take the exit signposted Homburg and drive towards

h o w t o f i n d u s
h o w t o f i n d u s

Bexbach on Kleinottweiler street. When you reach the roundabout in Bexbach take the exit to Saarpfalz Park. Stay on the main road till the junction "Zum Saarpfalz-Park" on your right. Go straight ahead until you reach Saarpfalz-Park. You will find us on the ground floor of the first building on the left.

... by train

Take the train to the ICE train station in Homburg (Saar). From there you could get to our offices by taxi (it takes about 10 minutes).

