

## Headquarters

Nanogate AG

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## Business model

Nanogate AG is a leading international enabler in the nanotechnology growth market. Nanogate gains a competitive edge for its customers by refining products using nanotechnology and enables the programming and integration of additional properties into fabrics and materials. As an enabler, the company bridges the gap between producers of raw materials and industrial conversion into products. The company thus provides a decisive interface for the commercialisation of chemical nanotechnology. With its enabler business model, Nanogate concentrates on the most attractive segment in nanotechnology. More than 200 solutions have already been mass-produced.

## Nanogate-Technologie®

Nanogate-Technologie® is a combination of chemistry and materials sciences which also incorporates product and process engineering.

In technological terms, Nanogate's work in the fields of chemistry and materials sciences concentrates on nanocomposites and nanoformulations manufactured using chemical nanotechnology. Complete platforms are already available for adjusting surface energies, generating barrier layers, tribological functions, electric storage layers and enabling additional properties. Nanogate's core competency in product and process engineering comprises various wet chemical and electrochemical processes as well as nanoimprinting. The integrated material systems available as a result offer optimum, cost-effective implementation platforms for tailored customer solutions. This allows Nanogate to cover a wide range of functions and substrates for countless industry sectors.

## Business segments and application areas

The *Multifunctional Surfaces* segment primarily comprises product refinement by means of generating functional surfaces to develop new properties. In this field, the Nanogate Group concentrates primarily on the application areas of Buildings/Interiors, Automotive/Mechanical Engineering, Sport&Leisure and Functional Textiles.

The *Advanced Applications* segment incorporates complex applications and systems for highly specialised markets which share both considerable sales potential and a significantly longer time to market. For example, the segment concentrates on nanostructured optics for sectors such as the display industry.

## Financial data (2004: HGB [German GAAP], since 2005: IFRS)

|               | 2004 | 2005 | 2006 | 2007 | 2008 |
|---------------|------|------|------|------|------|
| Sales (EUR m) | 2.8  | 4.8  | 7.8  | 10.4 | 12.2 |
| EBT (EUR m)   | 0.06 | 0.25 | 1.17 | 1.55 | 1.1  |

Current average sales growth: approximately 45 % p.a.

## Employees

76 (as of October 2009)

## Share

|                     |   |
|---------------------|---|
| Segment:            | Entry Standard                              |
| ISIN:               | DE000AOJKHC9                                |
| IPO:                | 18.10.2006                                  |
| Share capital:      | EUR 1,900,000                               |
| Designated sponsor: | Landesbank Baden-Württemberg,<br>equinet AG |

## Shareholder structure

|  |      |
|--|------|
| Free float                             | 31 % |
| Heidelberg Capital Private Equity Fund | 34 % |
| BIP Investment Partners                | 25 % |
| Nano Tec Beteiligungen GmbH            | 8 %  |
| equinet ESCF I                         | 2 %  |

## Management Board

- Ralf Zastrau (CEO)
- Michael Jung (COO)

## Supervisory Board

- Oliver Schumann (Chairman)
- Dr Farsin Yadegardjam (Deputy)
- Gerhard Asschenfeldt
- Dr Clemens Doppler
- Marc Faber
- Hartmut Gottschild

## Equity holdings

### Since 2002 HOLMENKOL AG, Ditzingen, Germany

Nanogate has held a stake in Holmenkol AG since 2002 and acquired the majority of shares in 2008. Holmenkol is a long-standing company with more than 85 years of expertise. It is currently being further developed into a leading international supplier of sports surfaces. The company's products draw on leading-edge technology to cater for competitive sports and the premium segment of the leisure and outdoor activities market.

### Since 2004 Nanogate Advanced Materials GmbH, Göttelborn, Germany

Nanogate Advanced Materials GmbH is now a wholly owned subsidiary of Nanogate AG. The company primarily focuses on complex applications and systems for high-volume, highly specialised markets. These forward-looking areas predominantly relate to nanostructured high-performance optics.

## Equity holdings

### Since 2008 FNP GmbH, Göttelborn, Germany

FNP GmbH was established in November 2008 and is a wholly owned subsidiary of Nanogate AG. The Feldten brand acquired in November 2008 – under whose name care products for sports and leisure articles have been marketed for more than 120 years – also belongs to the company. FNP concentrates on products in the Sport&Leisure sector and covers new segments in the high-volume market.



## Company history

- 1999 The company begins operating as a spin-off from the Leibnitz Institute for New Materials, Saarbrücken
- 2000 Takeover/integration of the Wiesbaden-based Colloid Surface Technologies GmbH's business activities  
  
Introduction of an integrated quality management system (ISO 9001:2000)
- 2001 Subsidiary Nanogate Coating Systems GmbH founded
- 2002 Stake acquired in Holmenkol Sport-Technologies GmbH & Co. KG
- 2003 Surface technologies pooled within Nanogate Coating Systems GmbH
- 2004 Nanogate Advanced Materials GmbH established
- 2005 Decision to transform Nanogate Coating Systems GmbH into a stock corporation
- 2006 Company renamed Nanogate AG  
  
IPO (18.10.2006, Deutsche Börse)
- 2007 Certified in line with the international environmental management norm (ISO 14001:2004)  
  
Launch of the strategy programme NEXT
- 2008 Majority stake acquired in Holmenkol AG  
  
Nanogate Advanced Materials GmbH acquired in full  
  
Subsidiary FNP GmbH established