



SCHOTT

# celebrates BOROFLOAT® speciality glass

Schott BOROFLOAT® borosilicate float glass provides the basis for many successful businesses. The recently-held Open House Day for SCHOTT employees and their families was the occasion to celebrate the 20th birthday of this historical product, which is manufactured by SCHOTT Technical Glass Solutions GmbH using the Microfloat process and the latest technology.

For 20 years, SCHOTT has been successfully selling its borosilicate glass BOROFLOAT®. The company manufactures it with the help of the Microfloat process at its founding site in Jena, Germany. Photo: SCHOTT

SCHOTT

SCHOTT is an international technology group with 130 years of experience in the areas of speciality glasses and materials and advanced technologies. Its core markets are the household appliance, pharmaceutical, electronics, optics, and transportation industries, and it has manufacturing and sales units in 35 countries. Its workforce of 15,400 employees generated worldwide sales of approximately EUR 1.84 billion for the 2012/2013 fiscal year. SCHOTT AG, with its headquarters in Mainz (Germany) is owned by the Carl Zeiss Foundation.

## PARTNER FOR SPECIAL GLASS

In 1884 the chemist Otto Schott, the optician Ernst Abbe and the engineer Carl Zeiss, with his son Roderich Zeiss, laid the foundation for the modern science and technology of glass. Together they founded the Schott & Associates Glass Technology Laboratory (Glastechnische Laboratorium Schott & Genossen), which later became the Jena Glass-works Schott & Associates (Jenaer Glaswerk Schott & Genossen) and revolutionized glass production at that time. With the founding of the SCHOTT Technical Glass Solutions GmbH on 1 April 2009 as a legally independent unit of the SCHOTT technology group, SCHOTT has concentrated the competence and expertise in the field of technical special flat glass. In so doing, SCHOTT TGS has taken over large parts of the former Jena Glass Works. It now employs a staff of 300 in Jena and has at its disposal the personnel resources of over 30 sales offices worldwide. The core competence of SCHOTT Technical Glass Solutions (TGS) lies in the development, production and processing of highly stable and extremely thermal-resistant special glass. The product portfolio includes floated and rolled borosilicate glass for a wide variety of applications from fire protection, optics, medical technology and photovoltaics through to lithium-aluminosilicate and aluminosilicate glass for new markets in the electronic industry and transport technology.

## CELEBRATING BOROFLOAT®

The employees of SCHOTT at the founding site in Jena celebrated the success of the speciality technical glass BOROFLOAT® together with their families at the beginning of April this year. The company has been marketing this glass successfully for 20 years now. The borosilicate glass that is floated in Jena forms the basis for a wide range of products which SCHOTT also processes at the site: from interior oven doors to the internationally known fire-resistant glass PYRAN® S, RESISTAN® bullet-proof glass, and NEXTERION® substrates for use in the biosciences. Furthermore, SCHOTT also supplies its customers with BOROFLOAT® in standard formats. Customers include glass processors in the optical, household appliance, and mechanical and plant engineering in-

dustries.

“Manufacturing of speciality glass in Jena has become an important pillar for the SCHOTT Group over the last 20 years. On behalf of the Board of Management, I would like to congratulate our more than 400 employees in this field for this outstanding achievement,” said Dr. Hans-Joachim Konz, a member of the Board of Management of SCHOTT AG, in his speech.

“All of us – float glass manufacturing, processing, quality management, development, application, logistics, sales, marketing, controlling, the personnel department, and management, of course – have worked very hard to make BOROFLOAT® a success in recent years and to further refine our technological expertise. We have also invested a lot of energy to making our speciality float glass a success in a wide variety of different versions and various applications.

we can all be very proud of,” added Kai Olbricht, Head of SCHOTT Technical Glass Solutions GmbH, at the party for employees. Only recently, SCHOTT set a new record by manufacturing its 3 millionth interior oven door.

## MANUFACTURING SPECIALITY FLOAT GLASS

SCHOTT manufactures speciality float glass in thicknesses ranging from 0.4 to 25.4 millimetres on its two microfloat lines. The maximum size of a glass pane is 2.4 x 4.5 metres. During floating, molten glass in the form of an endless ribbon swims on top of a bed of melted tin. This shaping process already gives it its extremely smooth surface. Thanks to the various product characteristics of

borosilicate glass, such as extremely high temperature stability, high mechanical strength, outstanding surface quality, or excellent optical characteristics, it is ideally suited for a wide variety of different applications that SCHOTT and its customers cover.

Hellma Optics from Jena, for example, manufactures optical components out of BOROFLOAT® that are used as rod lenses in laser inspection systems. “We know that we can depend on the consistently high product quality and technical services that SCHOTT offers. This explains why we have been working together successfully for 20 years,” said Sabine Bethge, Head of Sales at Hellma Optics.

“We are holding this party not only to celebrate our success over the last 20 years, but also to prepare ourselves for the future. We find ourselves in a strong

Processing of BOROFLOAT® into safety glass. Photo: SCHOTT



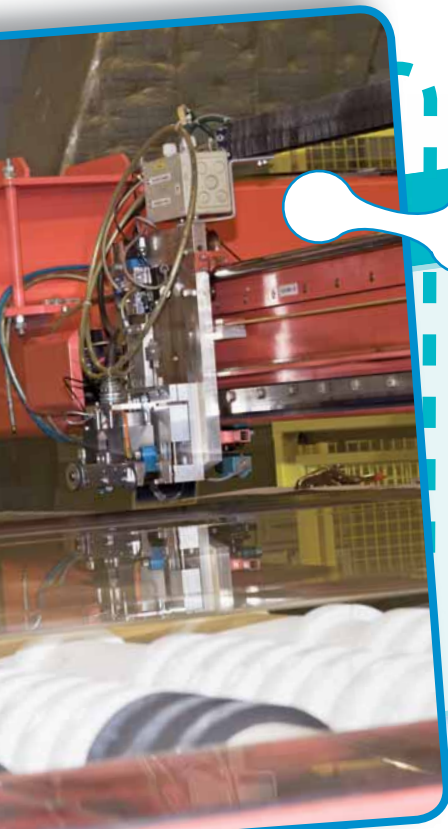
SCHOTT AG

**SCHOTT**  
glass made of ideas

Hattenbergstrasse 10  
55122 Mainz - Germany  
Tel: +49 - 6131 - 661614  
Fax: +49 - 6131 - 662025  
info@schott.com  
[www.schott.com](http://www.schott.com)

writing the success story of BOROFLOAT<sup>®</sup>," Olbricht explained.

Besides borosilicate glass, SCHOTT also manufactures alumino-silicate glass in Jena, in the form of a transparent glass-ceramic, for example. In fact, SCHOTT is the only manufacturer in the world that is capable of manufacturing it with the help of the float process. Due to special building regulations in the United States, it is used there as fire-resistant glass. Xensation<sup>®</sup> Cover glass joined the alumino-silicate glass family as the youngest member three years ago. The world's hardest cover glass is used in smartphones and tablet PCs.



**BOROFLOAT<sup>®</sup>**

## **BOROFLOAT<sup>®</sup> 33 BOROSILICATE GLASS FOR ADVANCED TECHNICAL APPLICATIONS**

BOROFLOAT<sup>®</sup> 33 borosilicate glass is SCHOTT's globally recognized name for high-quality, multi-purpose float glass. This unique speciality float glass is manufactured by SCHOTT Technical Glass Solutions GmbH using the Microfloat process and the latest technology. SCHOTT BOROFLOAT<sup>®</sup> glass has a wide range of outstanding product properties, such as its high thermal and chemical resistance, its excellent transparency and its good surface quality, which allow access to new and high-tech special glass applications. SCHOTT BOROFLOAT<sup>®</sup> glass has proven itself in many traditional areas of use, such as borosilicate cookware. Today, there is an increasing area of usage in new and technically sophisticated special glass applications such as electrophoresis, microfluidics and photovoltaics.

