

EVERY IDEA NEEDS THE RIGHT PARTNER

Your topic is glass – we have the solution.



DURAN[®]
CONSUMER GLASS



TAKE A SEAT
AND GET INSPIRED ...

WELCOME TO **DURAN**[®] CONSUMER GLASS

We are delighted about your interest in DURAN[®] heat-resistant glass. With a skilled workforce and more than 100 years of experience with borosilicate glass 3.3, you will find us the perfect partner for your project.

We would like to learn more about your ideas, jointly work on solutions and designs with you and, last-but-not-least, deliver the best possible result.

This brochure will give you an overview about our capabilities, our products and our services in the field of **DURAN**[®] **Consumer Glass**. Our team will be pleased to inform you about the multitude of applications and creative design ideas for new geometries and additional features in glass.

CONTACT US

Sales DURAN[®] Consumer Glass

Phone: +49 6131 - 1445 4131

Fax: +49 6131 - 1445 4109

ConsumerGlass@DWK-LifeSciences.com

www.DURAN-ConsumerGlass.com



DURAN® PROPERTIES MAKE ALL THE DIFFERENCE

Glass is not just glass. No less than the outstanding properties of our borosilicate glass 3.3 make DURAN® that particular: the material that brings ideas to life.

Crystal-clear appearance for aesthetic designs

In the spectral range of about 310 and 2200 nm, the absorption of DURAN® is negligibly low. The glass is clear and colorless, so its contents appear totally pure. Total transparency allow designs with a flair of purity and airiness.

Fascinating designing – stress-free material

DURAN® glass can tolerate not just very high and very low temperatures (+450 °C to -70 °C). What makes it so special is its resistance to thermal shock. With its very low coefficient of linear expansion, literally no tension is built up in the article, when the temperature changes rapidly. Therefore, it does not crack or shatter, when boiling water is filled in. In addition, DURAN® glasses are suitable for use with microwave ovens.

Clean, safe, resistant

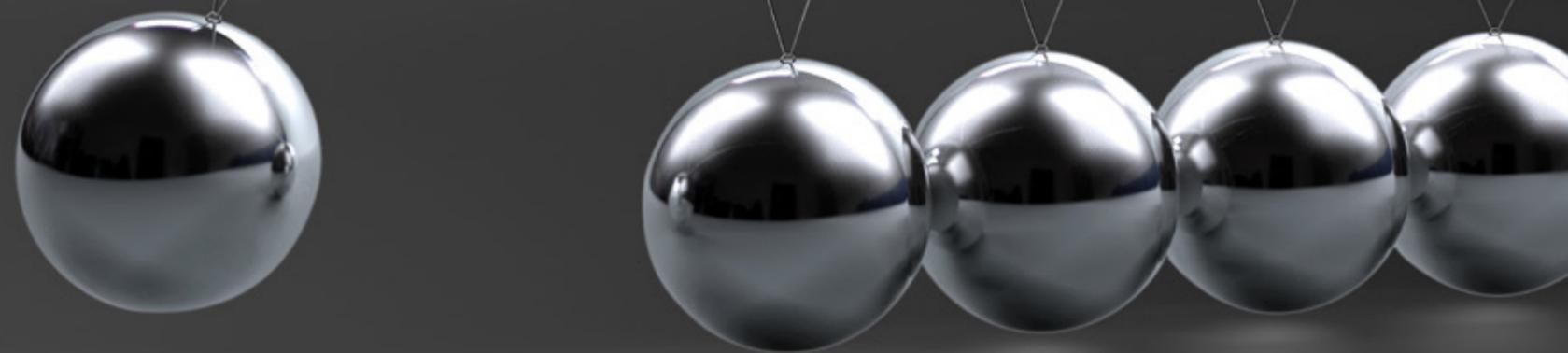
Germs and co. have got no chance. Because of its smooth, non-porous surface, DURAN® glass prevents the adhesion of e.g. fungi or bacteria and is easy to clean. Aqueous solutions, acids or alkalis cannot do any harm to the material. It does not absorb other substances and itself cannot release anything that may be harmful to health. DURAN® is completely neutral in taste and odor, what makes it ideal for any application in the kitchen.

For a long durability: Information and tips on use for your customers

DURAN® products made from heat-resistant glass (up to 450 °C) are taste- and odor-neutral. This makes them ideal for use in the oven, microwave, refrigerator, dishwasher, and even on the hob. Due to its excellent thermal shock resistance (T 120 °C) DURAN® products can be used for baking, food preparation, freezing, storage, as well as for serving and decorating.

To make sure that DURAN® products offer enduring pleasure to your customers, we recommend that you add tips on use (www.DURAN-ConsumerGlass.com/usage) to your manuals supplied with the products.

WE PROVIDE STIMULI
FOR MAKING YOUR IDEAS
SUCCESSFUL



GLASSES FOR WATER KETTLES

Kettles made with DURAN® glass provide a high-quality alternative to plastic products. **The arguments in their favor are proving to be very convincing to an increasing number of brand owners, who are following the trend towards premium quality kitchen appliances:**

- Innovative design option
- Lasting brilliance of the glass surface
- No emissions which might be harmful to health when in contact with food
- Taste-neutral
- Color coating and printing options available



GLASSES FOR WATER KETTLES

DWK Life Sciences has developed a unique manufacturing process for these glass components that will meet the highest quality requirements. Dimensions of up to 300 mm in height and 240 mm in diameter are possible.

Dimensional precision in combination with narrow tolerances:

- Reduction of problems during assembly
- Product safety: automated precision fire-cutting process prevents micro-cracks in the glass
- Reliability: as the leading supplier of glass components for electric kettles, we offer process stability and experience

HOUSEHOLD GLASSES

Glass is an attractive material and offers a nearly inexhaustible range of design options. DWK Life Sciences manufactures elegant glass bodies and is an important partner in the household glass sector. Our range includes teapots, glasses, bowls, dishes and storage containers in various shapes and styles.

With over a hundred years of experience in glass manufacturing, we have perfected production and finishing processes down to the last detail. We supply our customers with products of the highest glass and production quality; we can also offer you a wide range of technological expertise, so your ideas can be implemented.



The DURAN® borosilicate glass 3.3 bodies are produced exclusively using customized molds for brand owners and wholesalers. **The following product characteristics are in focus for this product group:**

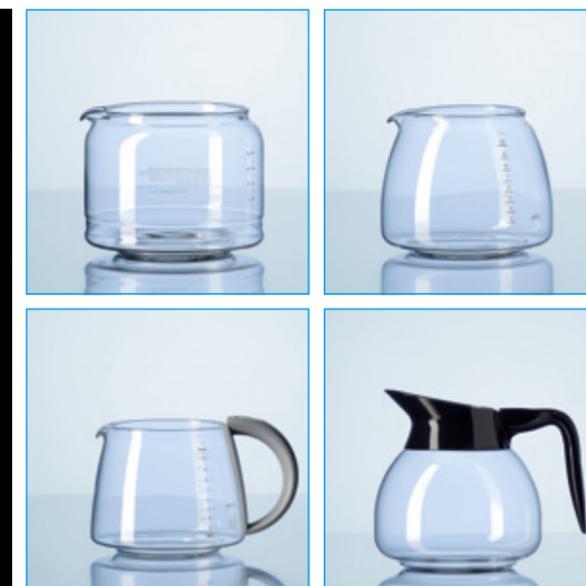
- Heat resistance (up to 450 °C), microwave, oven and dishwasher safety
- Safe and healthy food preparation
- Hygienic, non-porous surface for ease of cleaning
- High thermal shock resistance
- Taste- and odor-neutrality, high chemical and mechanical resistance
- Inertness, suitable for allergy sufferers

HOUSEHOLD GLASSES



GLASS JUGS FOR COFFEE MACHINES

Whether required for private, domestic or commercial use, glass jugs are an essential part of every coffee machine. DURAN® jugs made from borosilicate glass 3.3 are used by OEM customers as components or spare parts in both domestic and commercial coffee makers. And the numbers are impressive: we can look back proudly on the production of over 50 million glass jugs with glued-on handles – to pick just one particular product.



GLASS JUGS FOR COFFEE MACHINES

Our customers can choose from a great variety of different designs, enabling them, to differentiate their product from those of other manufacturers. Cylindrical, conical, bulbous shapes, with glued-on handles or handle-/pouring-lip combinations (e.g. for commercial coffeemakers) are available.

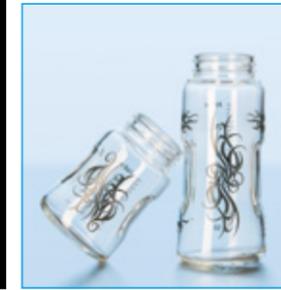
All shapes can be offered with or without print and with or without spout. A maximum of 475 mm in height and 270 mm in outer diameter can be manufactured. Generally, all jugs are designed to customer specifications. We would be pleased to work with you, if you have plans to develop new designs.

BOTTLES AND PRESS-BLOWN ITEMS



Two techniques in one: different applications demand for combinations of, for example, a blown hollow body with a pressed screw thread. **Unlike plastic containers or traditional container and packaging glassware (e.g. bottles for the beverage industry), DWK Life Sciences products feature the following characteristics:**

- High heat resistance
- High thermal shock resistance
- Chemical resistance to aqueous media, acid and alkaline solutions
- Easy to clean
- Very smooth, non-porous surfaces, that prevent the adhesion of e.g. fungi and bacteria
- Taste- and odor-neutral



BOTTLES AND PRESS-BLOWN ITEMS

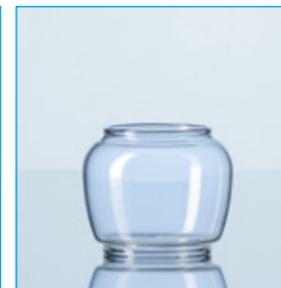
Press-blown DURAN® bottles are used for example as baby feeding bottles. Their excellent hygienic qualities make them suitable for the sophisticated requirements of clinics and hospitals. This is also true for domestic use, where they play an important role in baby care. The bottles can be boiled and then cooled down to low temperatures immediately without having a negative effect on the glass.

Other fields for press-blown articles include bottles for premium quality brandies, oven lights, and many more.

GLASSES FOR THE LIGHTING INDUSTRY

Light and glass complement each other perfectly; they accentuate each other at their finest. Thin-walled blown SUPRAX® branded cylinders are widely used in the lighting industry and are found in such appliances as e.g. camping gas lamps and kerosene lanterns. They also are used for special radiant heaters.

Outstanding product characteristics, such as high thermal shock resistance and high heat resistance, make SUPRAX® glass the material of choice for a range of applications. Our unique manufacturing process enables us to achieve a very high safety standard, as a result of which SUPRAX® glass cylinders, unlike those made from conventional glass, have no micro-cracks at the edges.



SUPRAX® glasses could be found for example in PETROMAX® lanterns.

Various standard sizes are available in cylindrical or bulbous form with a clear or enamelled finish. In addition, we gladly manufacture to your customized dimensions.

GLASSES FOR THE LIGHTING INDUSTRY



CLOCK DOMES AND DISPLAY GLASSES

Glass is the perfect material to protect and display a valuable object – and to become an eye-catching showpiece in itself at the same time.

DURAN® clock domes are distinguished by their high shine and uniform wall thickness distribution. This makes them particularly suitable for protecting and exhibiting valuable clocks and other display items. Nothing deranges the beholders view on the well protected, but almost free content.



CLOCK DOMES AND DISPLAY GLASSES

We supply domes in various dimensions as well as conically shaped displays. Optimum dimensional precision within narrow design tolerances guarantees a perfect fit.

The minimum order quantity per size is determined by the daily output. We will be pleased to inform you about the general requirements.

WE BRING TOGETHER WHAT BELONGS TOGETHER

Before a new product enters the market, it needs more than a good idea. A first class material, that provides form and functionality. And a partner who develops it further from the plain idea to maturity for serial production.

- Safety for your customers thanks to many years of experience and extensive know-how.
- Superior features of our DURAN® glass for highest demands.
- Consistently high quality and reproducible products for your brand.
- Advanced technologies for a reliable, fully automated production.
- Competent staff answering your questions during the entire process.

All of what constitutes the strength of our brand, is the guarantee for your success in the market.

BE ON THE SAFE SIDE...

Strong brand

- "Made in Germany"
- More than 125 years of experience
- High brand recognition
- Innovation strength due to advanced technologies and molds

Original DURAN® quality

- Guaranteed borosilicate glass 3.3 according to ISO 3585:1998
- Literally no tension and therefore low risk of breakage due to uniform wall thickness
- Crack-free edges produced in a fire-cutting process
- Exceptionally high stability and durability, which makes it safe for the user
- Certificates of conformity (food grade quality, REACH, RoHS)
- Long lasting printings, lead-free colors

Reliable manufacturing

- Fully automated production, 24/7
- Broad range of technologies
- Defined, stable running processes
- Certifications (quality, energy and environmental management)
- On-time delivery and reliable availability of products
- Close-to-zero complaint rate

Customer-oriented partnership

- Intensive exchange of ideas
- Project teams of experienced, collaborative professionals
- Expertise in accompanying processes and components
- Global network
- High level of service and overall support

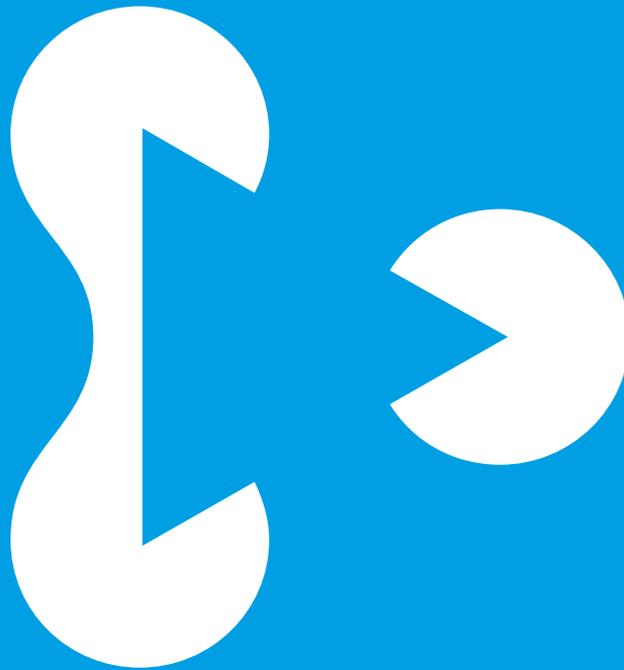
Use these success factors to differentiate your product from competitors and make sure to have a lead through premium quality.

YOUR PRODUCT DESERVES THE BEST – DURAN® GLASS

QUALITY SEAL

DURAN® borosilicate glass is perfect for all heat-resistant applications, and is used in a variety of everyday products, but also in various special fields.





**DURAN
WHEATON
KIMBLE**

DWK Life Sciences GmbH
Hattenbergstraße 10
55122 Mainz
Germany

Phone: +49 6131 - 1445 4131
Fax: +49 6131 - 1445 4109
ConsumerGlass@DWK-LifeSciences.com
www.DURAN-ConsumerGlass.com

