



EVERY IDEA  
NEEDS THE  
RIGHT PARTNER

DURAN® CONSUMER GLASS

 **DURAN GROUP**  
magic of precision

TAKE A SEAT  
AND GET INSPIRED

## WELCOME TO THE DURAN GROUP

We are delighted about your interest in DURAN® heat-resistant glass. With a skilled workforce of more than 650 employees at our sites at Mainz and Wertheim in Germany and Pula in Croatia, 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.



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## 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 colourless, so its contents appear totally pure. Total transparency allows 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 odour, 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 odour-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 the following tips on use to your manuals supplied with the products:

- Rinse well before use.
- Remember that DURAN® products are sensitive to impact and liable to break.
- Do not heat up oily liquids or solids. Do not allow liquids to boil away.
- The electric hob should be roughly the same size as the base of the product.
- If using a gas hob, ensure that the flames do not spread too high up the sides of your glassware. To prevent this we recommend the use of a flame diffuser.
- Never place the product on a hot plate.
- Allow the liquid to heat slowly over at a medium heat range. Never place the product on a cold or wet surface when still hot (risk of thermal shock).
- For cleaning, we recommend the use of conventional detergents. Do not use steel wool or abrasive cleaners.
- The instruction manual for the microwave oven, electric or gas hob is to be observed.



WE PROVIDE STIMULI  
FOR MAKING YOUR IDEAS  
SUCCESSFUL

## GLASSES FOR WATERKETTLES



Kettles made with DURAN® glass provide a high-quality alternative to plastic products. The arguments in their favour 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
- Colour coating and printing options available



The DURAN Group 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



Glass is an attractive material and offers a nearly inexhaustible range of design options. The DURAN Group 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 moulds 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 odour-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.



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), the DURAN Group's 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 odour-neutral

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 hos-

pitals. 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.



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.



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.

## THE DURAN GROUP: THE SKY'S THE LIMIT

Complex challenges, groundbreaking solutions and perfected products: we drive developments forward. Thanks to many years of experience, our wide-ranging expertise and our feel for glass, we can provide inspiration during the design phase and make even the most demanding projects possible. So that ideas become innovations.

### **We develop the technical solutions for your design**

Our experts develop technical solutions, by turning your design into a game-changing product. You have the security of knowing that you can always enrich your value added chain with a convincing design.

### **We get your ideas in shape**

Not just for manufacturing your design, even more so for the creative process itself we are your partner. Because of our excellent co-operations with leading industrial designers, we can offer you an ideal platform for bringing your product idea to life.

### **We combine competences into a bundle**

As a leading supplier in the glass industry, we have many excellent contacts with the top players of end-product related sectors. We can bring together expertise from different fields. This is the way to find innovative solutions to those complex product ideas, which require broadly-based knowledge from several specialist fields.

### **We can give an impetus for your new product idea**

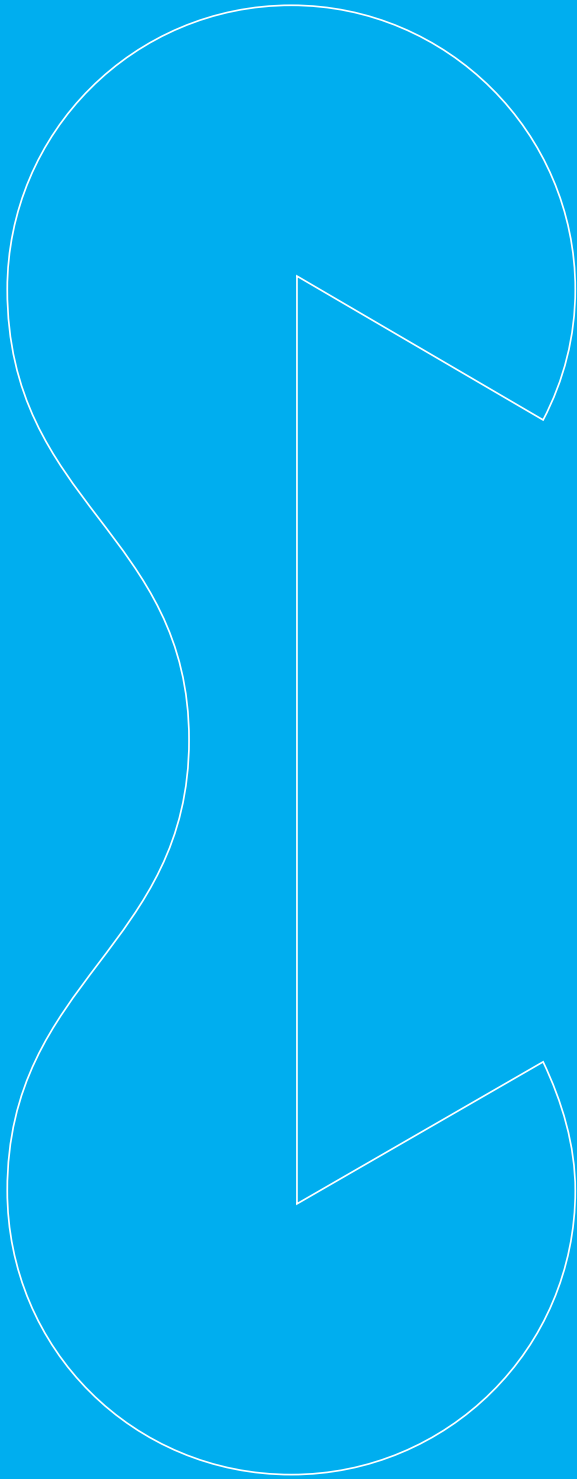
Integrating the Know-How of different industries, we continuously generate innovative product ideas. Our customers benefit from these links and it inspires our joint efforts. That makes us unique and offers a lasting win-win scenario to our partners.



### **We are pioneers in the machine production of non-round symmetries**

Creative design meets innovative production methods – that was the motto behind the development of a teapot with an asymmetric shape made from heat-resistant borosilicate glass. The fascinating design embodied elegance, dynamism and innovation. But neither designer nor manufacturer knew at that time whether production was technically feasible – that was until the DURAN Group took up the challenge. After several years of development, it's time finally came: the first asymmetrical teapot, manufactured in an automated process from borosilicate glass, was sent out to conquer the market.

We have succeeded in doing what no other company in the world can offer you. As a result of our expertise and the use of the very latest processes, we are now the leading supplier of mass-produced, asymmetric containers made from heat-resistant glass. We want to share our highly specialist expertise with our customers, so they can participate in the exclusive competitive benefits of our technology and offer these to their own markets. We would be glad to do pioneering work for you and to smooth the route ahead for your innovation.



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