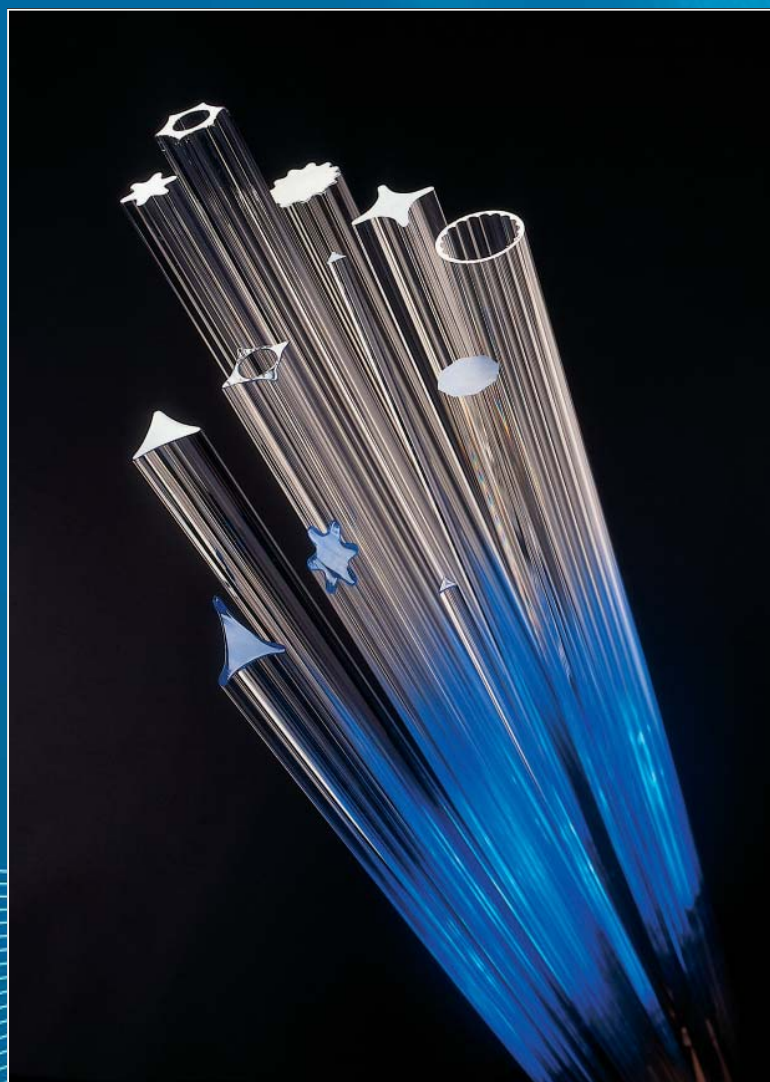


SCHOTT CONTURAX®

Adding a new dimension with glass profiles



SCHOTT
glass made of ideas

SCHOTT CONTURAX®

Adding a new dimension



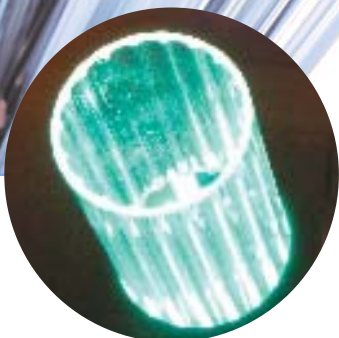
Whatever your application, the diverse range of shapes and dimensions of SCHOTT CONTURAX® opens up perspectives for bright new ideas.

From circular to star shaped, combined with the excellent properties of borosilicate glass, CONTURAX® profile rod comes in a variety of inner and outer profiles to provide reflection, high light transmission and amazing brilliance.

CONTURAX® profiles give designers a whole new area to develop and explore, the possibilities are endless. It is the astounding flexibility of glass which makes this material so versatile: special glass offers tailor-made solutions for a wide spectrum of applications.

Forms and shapes add contrast, texture and stunning light effects in countless applications including:

- Furniture fittings
- Handrails
- Lighting
- Packaging
- Partitions
- Retail fixtures
- Decoration



Since Otto Schott's scientific glass studies, glass as a material has become indispensable to the modern world.

Glass is an attractive and versatile material, offering transparency and a smooth surface. CONTURAX® is a high quality borosilicate glass offering stability and high resistance to temperature change. The excellent properties of CONTURAX® profile rod provide for good workability when forming and cutting the glass.





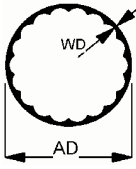

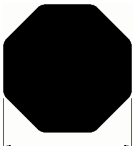
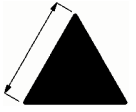
Glass as a component has a major advantage over other materials: it is mechanically stable, extremely corrosion resistant to water, acids, salt solutions, organic substances and halogen and is electrically non-conducting - all at the same time. Special Glass is not brittle and it does not age.

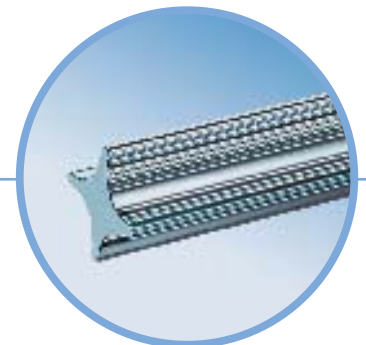
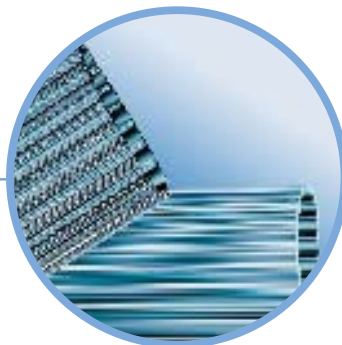
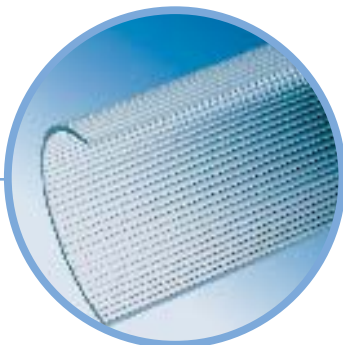
As Europe's leading manufacturer of specialist glass, SCHOTT sees its core purpose as the lasting improvement of living and working conditions through special materials, components and high-tech solutions. Its main areas of focus are the architectural, household appliance, lighting, pharmaceutical and renewable energy industries.

The business segment Tubing is one of the world's leading manufacturers of glass tubing with a production capacity in excess of 65,000 tons. Some 60 different types of glass, manufactured in a wide variety of dimensions are available to customers in just about every country in the world via an extensive sales network. Alongside the most modern melting and production methods for special glass, SCHOTT also offers the highest standards of precision in the processing sector.



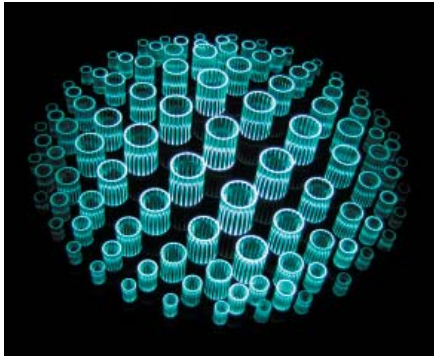
CONTURAX® range of profiles

Profile Type	Profile No	Dimensions & tolerances in mm	Carton contents approximate pieces/kg
	001	25 ±1.50	9/ 9.3 kg
	002	31 ±2.00	6/ 8.7 kg
	003	10 ±0.50 29 ±1.00	56/ 7.3 kg 9/ 9.2 kg
	004	30 ±2.00/ ID 17.0 ±2.00	6/ 7.5 kg
	006	22 ±1.00/ WD 1.0 ±0.25 30 ±1.00/ WD 2.0 ±0.30 40 ±1.50/ WD 2.0 ±0.30 50 ±1.50/ WD 2.5 ±0.30 60 ±1.50/ WD 2.5 ±0.30 70 ±1.50/ WD 2.5 ±0.30 80 ±1.80/ WD 2.5 ±0.40 100 ±1.80/ WD 3.0 ±0.50 150 ±2.00/ WD 3.0 ±0.50	35/ 9.0 kg 16/ 11.0 kg 16/ 16.2 kg 12/ 19.2 kg 9/ 17.6 kg 4/ 9.4 kg 4/ 10.5kg 4/ 15.5 kg 2/ 11.8 kg
	028	15 / H 7.5 25 / H 12.0 29.5 / H 14.5	45 / 14.6 kg 18 / 14.5 kg 15 / 17.1 kg
	033	23 ±1.00 27 ±1.00 35 ±1.50	12 / 16.5 kg 9 / 17.8 kg 4 / 13.2 kg
	041	29 ± 1.00	9 / 12.0 kg



SCHOTT CONTURAX®

Physical and Chemical Properties



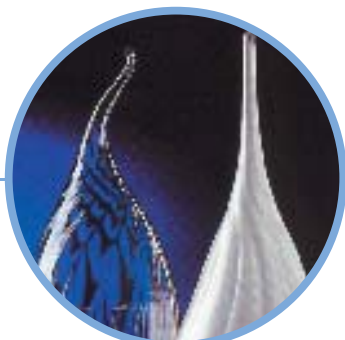
Physical Data

Coefficient of mean linear thermal expansion	
α (20°C; 300°C) acc. to ISO 7991	$3.3 \cdot 10^{-6} \text{ K}^{-1}$
Transformation temperature T_g	525 °C
Glass temperature at 10^{13} (annealing point)	560 °C
viscosity η in dPa · s: $10^{7.6}$ (softening point)	825 °C
10^4 (working point)	1260 °C
Maximum short-time working temperature	500 °C
Density ρ at 25°C	$2.23 \text{ g} \cdot \text{cm}^{-3}$
Modulus of elasticity E (Young's modulus)	$64 \cdot 10^3 \text{ N} \cdot \text{mm}^{-2}$
Poisson's ratio μ	0.20
Thermal conductivity λ_{300} at 90 °C	$1.2 \text{ W} \cdot \text{m}^{-1} \cdot \text{K}^{-1}$
Temperature for the specific electrical resistance of $10^8 \Omega \cdot \text{cm}$ (DIN 52326) $t_{k, 10^8}$	250 °C
Logarithm of the electric volume resistivity ($\Omega \cdot \text{cm}$) at 250 °C	8
at 350 °C	6.5
Dielectric properties (1 MHz, 25°C)	
Dielectric constant (permittivity) ϵ	4.6
Dielectric loss factor (dissipation factor) $\tan \delta$	$37 \cdot 10^{-4}$
Refractive index ($\lambda = 587.6 \text{ nm}$) n_d	1.473
Stress-optical coefficient (DIN 52314) K	$4.0 \cdot 10^{-6} \text{ mm}^2 \cdot \text{N}^{-1}$

Pressure resistance

Resistance parameter for CONTURAX borosilicate glass 3.3 $K/S = 7 \text{ N} \times \text{mm}^{-2}$ as per EN 1595 Standard: Pressure equipment made from Borosilicate Glass 3.3: General rules for design, manufacture and testing.

Mouth-blown CONTURAX® forms unique and exciting shapes



CONTURAX® profiles combined with other materials adds a new dimension



CONTURAX® can be manipulated to create unique forms



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