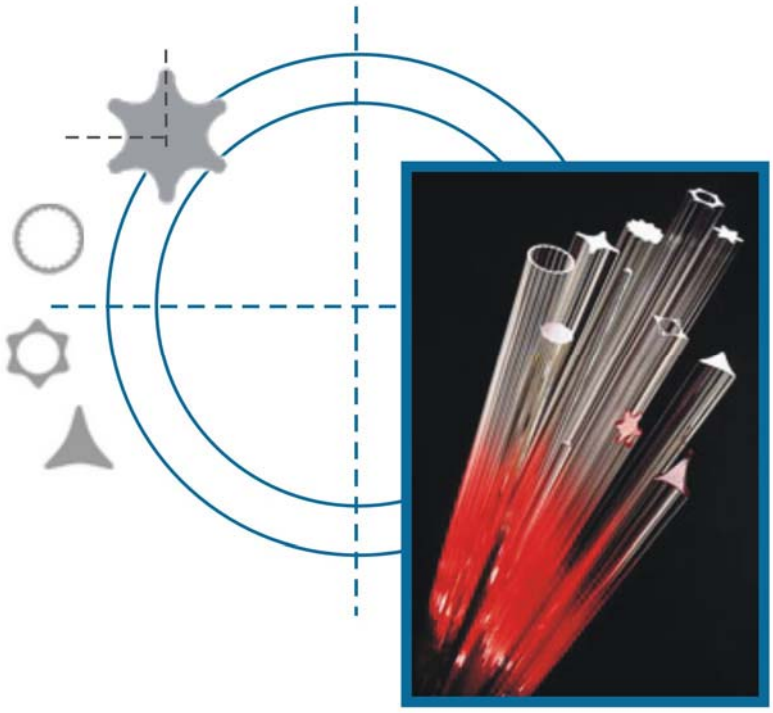


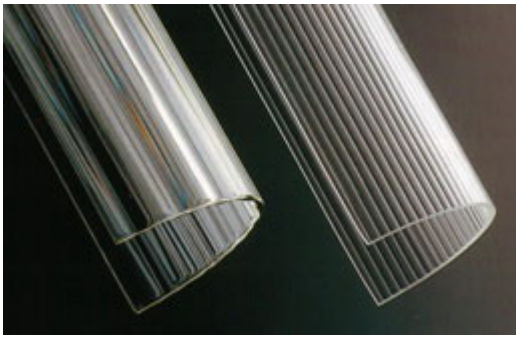
Conturax®

Borosilicate 3.3 Glass Profiles

VIDRASA
VIDRIO EN TUBO Y VARILLA, S.A.

Conturax: The Glass

Opening up new perspectives



Borosilicate glass tubing and rod are available in varying types of inner and outer profile to inspire new products made from glass. Whether for lighting, arts and crafts or other fields: Diverse circular or star-shaped profiles in different dimensions, combined with the excellent properties of special glass, open up perspectives for bright new ideas.

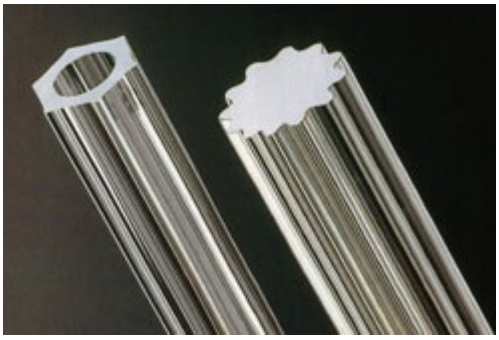
Let the versatility of Conturax inspire you.

Geometric light design

Profiled tubing and rod, suffused with light to create illusions and produce unexpected effects.

Geometric profiles combined with light to provide unsuspected scope for creative use in decorative or technical lighting or for distinctive architecture.

Let shape and structure inspires you. Try for unusual effects with the harmonious interplay of light and shade available with Conturax.



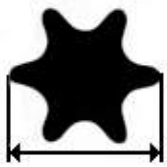
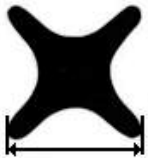
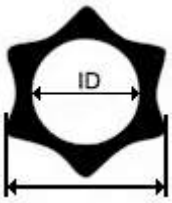
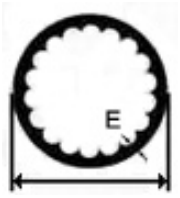
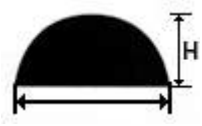
Sculptured art

Profiled tubing and rod, skilfully formed into small works of art to open up new aesthetic dimensions.

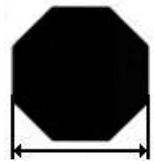
Geometric profiles, blown into form or combined with other fine materials to entice the user towards creative experiments with shapes and substances.

Give free rein to your imagination. Use Conturax to create unprecedented treasures.

Conturax: Standard Profiles

Type	Profile Number	Measures in mm	Carton Contents	
			Number of pieces	Kg
	001	(*) 6 25±1.5	146 9	10.0 9.3
	002	31±2	6	8.7
	003	10±0.5 29±1	56 9	7.3 9.2
	004	30±2 / 17±2 ID	6	7.5
	006	22±1 / 1±0.25 Wt 29.5±1 / 1.1±0.25 Wt 30±1 / 2±0.3 Wt 40±1.5 / 2±0.3 Wt 50±1.5 / 2.5±0.3 Wt 60±1.5 / 2.5±0.3 Wt 70±1.5 / 2.5±0.3 Wt 80±1.8 / 2.5±0.4 Wt 100±1.8 / 3±0.5 Wt	35 16 16 16 12 9 4 4 4	9.0 7.5 11.0 16.2 19.2 17.6 9.4 10.5 15.5
	028	15±0.5 / 7.5±0.3 H 25±0.5 / 12±0.5 H 29.5±0.5 / 14.5±0.5 H	45 18 15	14.6 14.5 17.1

Conturax: Standard Profiles

Type	Profile Number	Measures in mm	Carton Contents	
			Number of pieces	Kg
	033	27±1.0 (*) 35±1.5	9 4	17.8 13.2
	035	(*) 35±1.0	12	13.0
	041	29±1.0	9	12.0
	049	30±0.5 / 12±0.5 H	21	20.1
	072	(*) 40±1 / 30±1H / 2Wt (*) 80±1,2 / 40±1,2H / 2,3Wt 140±2,0 / 68±2,0H / 3,3Wt	24 8 2	16.7 12.0 7.4
	073	140±2,0 / 68±2,0H / 3,3Wt	2	11.0

ID: Inside Diameter / Wt: Wall thickness / H: Height

(*) Special Profiles actually in stock.

Length approx. 1500 mm.
Supplies are effected in cartons.
Special dimensions and other profiles on request.

Conturax: Physical and Chemical Properties

Physical Data

Mean coefficient of linear expansion α (20 ºC;300 ºC)	$3.3 \cdot 10^{-6}\ K^{-1}$
Transformation temperature	525 ºC
Temperature fixed points at viscosity η in dPa · s:	
10^{13} upper annealing point	560 ºC
$10^{7.6}$ softening point	820 ºC
10^{4} working point	1260 ºC
Maximum short-time working temperature	500 ºC
Density ρ	$2.22\ g \cdot cm^{-3}$

Chemical Composition (main components in approx. weight %)

SiO_2	B_2O_3	$Na_2O + K_2O$	Al_2O_3
81	13	4	2

Chemical Data

Hydrolytic Class (ISO 719)	HGB 1
Acid Class (DIN 12 116)	Class S 1
Alkali Class (ISO 695)	Class A 2

Conturax (Borosilicate Glass 3.3) is highly resistant to water, neutral and acid solutions, concentrated acids and acid mixtures, and to chorine, bromine, iodine and organic substances. The chemical resistance of this glass is superior to that of most metals and other materials, even when exposed to long processing periods and temperatures above 100 ºC.

A slight release of mainly monovalent ions takes place after exposure of the glass to water or acids. A very thin layer of impervious silica gel is subsequently formed on the surface of the glass, which in turn slows clown further attack. Acid, hot phosphoric acid and alkaline solutions attack the glass surface as a function of concentration and temperature.

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