

PRODUCT CATALOGUE

# Casting *Glass*

PRECIOSA

# Casting Glass

*Coloured glass with a high lead oxide content for the creation of melted glass sculptures (and much more besides). Melted glass sculptures involve a special creative procedure which, unlike sculpture made from other traditional materials, also makes use of the optical properties of the glass, its transparency or translucency and the play of light. The glass with a high lead content sold under the PRECIOSA Traditional Czech Glass brand has been designed in order to adhere to all of the special requirements of melted glass technology in a mould. The lead glass complies with a wide range of demands – it is suitable for the realisation of small-scale items, as well as for very large glass objects. Its characteristic properties are: low viscosity, a low cooling temperature and deformation point, a high surface quality, high dispersion and optical clarity and also excellent properties for working when cold. The main form in which lead glass is supplied is as a semicircle casting. It is, however, possible to produce other shapes – rods, lampworking rods and blocks. It is also possible to manufacture glass with a 15% and 32% PbO content to special order, as well as new unprecedented colours and shades.*



# Casting Glass

PBO content 15%



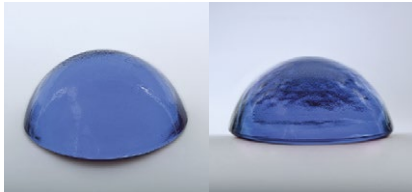
900-00033  
crystal



900-10513  
golden smoke



900-10823  
jongwill



900-20213  
alexandrite



900-20503  
fuchsia



900-30003  
sapphire



900-30013  
sapphire



900-30033  
sapphire



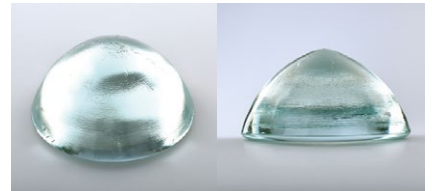
900-40003  
smoke grey



900-50003  
peridot



900-50013  
peridot



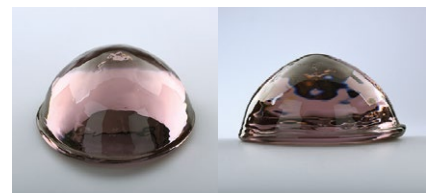
900-60003  
aquamarine



900-60033  
aquamarine



900-60113  
aquamarine



900-70233  
pink



900-80013  
citrine



900-70553  
fuchsia



# Casting Glass

PBO content 48%



900-00031  
heavy crystal



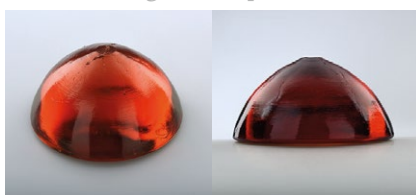
900-10020  
golden topaz



900-10030  
golden topaz



900-10040  
golden topaz



900-10050  
golden topaz



900-10700  
japanese topaz



900-10820  
jongwill



900-30000  
sapphire



900-30010  
sapphire



900-30030  
sapphire



900-40100  
oxide



900-50010  
peridot



900-50030  
olivine



900-60000  
aquamarine



900-60030  
aquamarine



900-60040  
aquamarine



900-60200  
green aquamarine



900-60350  
siamese sapphire



900-70031  
pink



900-90031  
topaz ruby

The shown colors can differ from the original.







15% CASTING GLASS TRANSPARENT

Informative technical parameters	Units	Values
Specific gravity	kg/m³	2900 ± 50
Coefficient of expansion α	K <sup>-1</sup>	(11.5 ± 0.3 ) x 10 <sup>-6</sup>
Transformation point t <sub>g</sub>	°C	435 ± 15
Deformation point t <sub>D</sub>	°C	495 ± 15
Softening point t <sub>L</sub>	°C	610 ± 10
Informative chemical composition of glass	%	SiO <sub>2</sub> - 60 PbO - 15 Na <sub>2</sub> O - 9 K <sub>2</sub> O - 9,5 ZnO - 5,5

48% CASTING GLASS TRANSPARENT

Informative technical parameters	Units	Values
Specific gravity	kg/m³	3800 ± 50
Coefficient of expansion α	K <sup>-1</sup>	(9.9 ± 0.3 ) x 10 <sup>-6</sup>
Transformation point t <sub>g</sub>	°C	435 ± 15
Deformation point t <sub>D</sub>	°C	489 ± 15
Softening point t <sub>L</sub>	°C	580 ± 10
Informative chemical composition of glass	%	SiO <sub>2</sub> - 39.5 PbO - 48 Na <sub>2</sub> O - 2.5 K <sub>2</sub> O - 7

## **PRECIOSA Traditional Czech Glass**

A member of the Preciosa Group

Preciosa Group is a global leader in products manufactured from crystal. From the world famous Czech Beads and Crystal Components used in fashion industry, to tailor made Lighting projects for luxury hotels, royal palaces and yachts, the true craftsmanship of crystal production has been present in Bohemia since 16th century.

[Preciosa-Ornela.com](http://Preciosa-Ornela.com)