

Casting *Glass*

PRODUCT CATALOGUE



PRECIOSA

Casting Glass

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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.

We offer casting glass in shape of semicircle casting with a 15% PbO and 48% PbO content.



15% CASTING GLASS TRANSPARENT

Informative technical parameters	Units	Values
Approximate dimensions of 1 piece	cm	diameter 10 height 5
Weight of 1 piece	kg	approx. 0.75
Specific gravity	kg/m ³	2900 ± 50
Coefficient of expansion α	K ⁻¹	(11.5 ± 0.3) x 10
Transformation point t_g	°C	435 ± 15
Deformation point t_D	°C	495 ± 15
Softening point t_L	°C	610 ± 10
Informative chemical composition of glass	%	SiO ₂ - 60 PbO - 15 Na ₂ O - 9 K ₂ O - 9,5 ZnO - 5,5

48% CASTING GLASS TRANSPARENT

Informative technical parameters	Units	Values
Approximate dimensions of 1 piece	cm	diameter 10 height 5
Weight of 1 piece	kg	approx. 0.9
Specific gravity	kg/m ³	3800 ± 50
Coefficient of expansion α	K ⁻¹	(9.9 ± 0.3) x 10 ⁻⁶
Transformation point t_g	°C	435 ± 15
Deformation point t_D	°C	489 ± 15
Softening point t_L	°C	580 ± 10
Informative chemical composition of glass	%	SiO ₂ - 39.5 PbO - 48 Na ₂ O - 2.5 K ₂ O - 7

The composition of the individual colours has not been optimised to be compatible.

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PBO content 15%



00033
crystal



10033
golden topaz



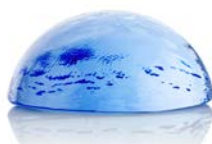
10513
golden smoke



10823
jongwill



20503
fuchsia



30003
sapphire



30033
sapphire



40003
smoke grey

The shown colors can differ from the original.

Casting Glass

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PBO content 15%



50003
peridot



50203
olivine



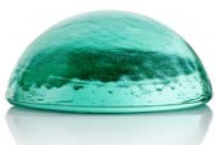
60013
aquamarine



60033
aquamarine



60113
aquamarine



70553
fuchsia



70233
pink



80013
citrine



The shown colors can differ from the original.

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