

Casting *Glass*

CATALOGUE OF SPECIAL COLOURS



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

* Transformation point tg - the temperature, at which glass transforms from a liquid to a solid state
Deformation point tD - the temperature, at which glass deforms under its own weight

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

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Lead Content 48%



00031
crystal | non-standard



00031
crystal



70031
pink



90031
ruby topaz



10050
golden topaz



40100
smoke grey



10040
golden topaz



The shown colors can differ from the original.

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Lead Content 48%



50030 (147054)
olivine



40100 (147056)
smoke grey



40100 (147058)
smoke grey



40100 (147060)
smoke grey



70550 (147084)
rubinite



10020 (147064)
golden topaz



70720 (147070, 147072)
apricot

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