

GENERAL INFORMATION
General information

Typology	Ready to use platinum
Color	Platinum
Color shade	Premium white
Production process	Casting
Grain refinement level	Medium
Deoxidation level	Minimum

Commercial composition (%)

PT	95.5
CO	4.5

Melting Temperatures

Solidus [°C]	1640.0
Liquidus [°C]	1670.0
Melting range [°C]	30.0

FULL CHARACTERIZATION DATA
Color coordinates

L *	a*	b*	c*	Yellow Index
86.1	0.5	3.8	3.8	8.2

Mechanical characteristics

As cast hardness [HV 0.2]	180.0
Hardness after 70% area red. [HV 0.2]	340.0
Hardness after annealing [HV 0.2]	185.0
Tensile strength (Rm) [Mpa]	550.0
Yield strength (Rp0.2) [MPa]	260.0
Elongation at rupture (A) [%]	20.0

Physical characteristics

Density [g/cm ³]	19.8
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General characteristics

As cast grain size [μm]	150.0
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Product applications

Centrifugal casting
Casting in closed systems

PT950CO-S 950‰

READY-TO-USE 950‰ PLATINUM ALLOY FOR CASTING

CASTING PROCESSING PARAMETERS**Pre-melting temperature**

Temperature [°C]

POURING TEMPERATURES

	Flask from [°C]	Flask to [°C]	Metal from [°C]	Metal to [°C]
< 0.5 mm	800	900	1840	1880
0.5 - 1.2 mm	750	850	1820	1860
> 1.2 mm	700	800	1800	1840

Trees without stones

Let the flask cool down for 3-4 minutes under inert atmosphere, then quench it in water.

Pickling

Use water jet or sandblaster.