

GENERAL INFORMATION
General information

Typology	Master alloy for platinum
Color	Platinum
Color shade	Premium white
Production process	All-purpose
Grain refinement level	Medium
Deoxidation level	Minimum

Commercial composition (%)

PD	75.8
CO	24.2

Melting Temperatures

Solidus [°C]	1680.0
Liquidus [°C]	1640.0
Melting range [°C]	40.0

FULL CHARACTERIZATION DATA
Color coordinates

L *	a*	b*	c*	Yellow Index
85.5	0.6	3.9	4.0	8.6

Mechanical characteristics

As cast hardness [HV 0.2]	160.0
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Physical characteristics

Density [g/cm ³]	15.2
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Product applications

Centrifugal casting
Casting in closed systems
Sheet production

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	1800	1840
> 1.2 mm	700	800	1720	1760
0.5 - 1.2 mm	750	850	1760	1800

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.

MECHANICAL WORKING PARAMETERS
Pre-melting temperature

Temperature [°C]

Reductions

Wire - diameter (%)	40.0
Sheet - area or thickness (%)	60.0

POURING TEMPERATURES	Countinous from [°C]	Countinous to [°C]	Ingot to [°C]	Ingot from [°C]
Temperatures			1800	1850

MECHANICAL WORKING ANNEALING	Temp. from [°C]	Temp. to [°C]	Time [min]
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Mechanical working quenching

Air cool down to 550°C, then quench in water.