

GENERAL INFORMATION
General information

Production process	Universal
Color shade	Premium white
Color	Platinum
Typology	Master alloy for platinum

Melting temperatures

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

Commercial composition

Cobalt (%)	24,00
Palladium (%)	76,00



PRECIOUS line

FULL CHARACTERIZATION DATA
Color coordinates

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

Physical characteristics

Density [g/cm ³]	15.2
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Product applications

Sheet production
Casting in closed systems
Centrifugal casting

Mechanical characteristics

As cast hardness [HV 0.2]	160.0
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CASTING PROCESSING PARAMETERS

CASTING TEMPERATURES	Flask from [°C]	Flask to [°C]	Metal from [°C]	Metal to [°C]
< 0.5 mm	800.0	900.0	1800.0	1840.0
0.5 - 1.2 mm	750.0	850.0	1760.0	1800.0
> 1.2 mm	700.0	800.0	1720.0	1760.0

Trees without stones

Let the flask cool down for 3-4 minutes after pouring under protective gas, then quench in water.

Pickling

Use water jet or sand blasting

MECHANICAL WORKING PARAMETERS
Reductions

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

POURING TEMPERATURES	Countinuous from [°C]	Countinuous to [°C]	Ingot from [°C]	Ingot to [°C]
Temperatures	1800.0	1850.0		

Mechanical working quenching

Let cool in air down to 550°C, then quench in water