

**GENERAL INFORMATION**
**General information**

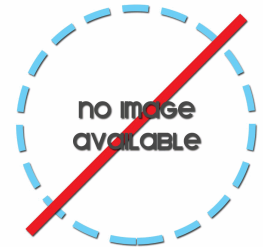
Typology	Ready-to-use platinum
Color shade	Premium white
Color	Platinum
Production process	Mechanical working

**Melting temperatures**

Melting range [°C]	30.0
Liquidus [°C]	1760.0
Solidus [°C]	1730.0

**Commercial composition**

Ruthenium (%)	4,50
Platinum (%)	95,50



PRECIOUS line

**FULL CHARACTERIZATION DATA**
**Color coordinates**

L*	87.9
a*	0.4
b*	3.2
c*	3.2
Yellow index	6.8

**General characteristics**

As cast grain size [µm]	95.0
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**Product applications**

Casting without stones
Wire production
Ingot casting
Casting in closed systems
Casting without stones
Sheet production
Casting in open systems

**Mechanical characteristics**

As cast hardness [HV 0.2]	165.0
Hardness after annealing [HV 0.2]	170.0
Hardness after 70% area red. [HV 0.2]	285.0
Tensile strength (Rm) [Mpa]	540.0
Yield strength (Rp0.2) [MPa]	250.0
Elongation at rupture (A) [%]	20.0

**CASTING PROCESSING PARAMETERS**

CASTING TEMPERATURES	Flask from [°C]	Flask to [°C]	Metal from [°C]	Metal to [°C]
< 0.5 mm	800.0	900.0	1840.0	1880.0
0.5 - 1.2 mm	750.0	850.0	1820.0	1860.0
> 1.2 mm	700.0	800.0	1800.0	1840.0

**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**

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

POURING TEMPERATURES	Countinuous from [°C]	Countinuous to [°C]	Ingot from [°C]	Ingot to [°C]
Temperatures	1840.0	1940.0	1840.0	1880.0

MECHANICAL WORKING ANNEALING	Temp. from [°C]	Temp. to [°C]	Time [min]
<1 mm	930.0	970.0	30.0
1 - 5 mm	930.0	970.0	45.0
>5 mm	930.0	970.0	60.0