

GENERAL INFORMATION
General information

Typology	Ready to use palladium
Color	White
Production process	All-purpose
Grain refinement level	Minimum
Deoxidation level	Medium

Commercial composition (%)

PD	95.5
GA	4.5

Melting Temperatures

Solidus [°C]	1430.0
Liquidus [°C]	1480.0
Melting range [°C]	50.0

FULL CHARACTERIZATION DATA
Color coordinates

L *	a*	b*	c*	Yellow Index
83.6	0.7	4.0	4.1	10.0

Mechanical characteristics

As cast hardness [HV 0.2]	110.0
Hardness after 70% area red. [HV 0.2]	215.0
Hardness after annealing [HV 0.2]	120.0
Tensile strength (Rm) [Mpa]	345.0
Yield strength (Rp0.2) [MPa]	180.0
Elongation at rupture (A) [%]	35.0

Physical characteristics

Density [g/cm ³]	11.8
------------------------------	------

General characteristics

As cast grain size [μm]	50.0
-------------------------	------

Product applications

Ingot casting
 Centrifugal casting
 Casting without stones
 Sheet production

CASTING PROCESSING PARAMETERS
Pre-melting temperature

Temperature [°C]

POURING TEMPERATURES

< 0.5 mm	900	1000	1550	1600
0.5 - 1.2 mm	800	900	1550	1600
> 1.2 mm	700	800	1550	1600

Flask from [°C]
Flask to [°C]
Metal from [°C]
Metal to [°C]
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

1580

1660

1560

1600

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

< 1 mm

870

920

20

1 - 5 mm

870

920

30

> 5 mm

870

920

40

Mechanical working quenching