

GENERAL INFORMATION
General information

Color	White
Color shade	Off-white
Typology	Master alloy for gold
Production process	Casting

Melting temperatures

Liquidus [°C]	910.0
Solidus [°C]	865.0
Melting range [°C]	45.0

Commercial composition

Copper (%)	58,00
Nickel (%)	21,00
Zinc (%)	21,00



GOLD line

FULL CHARACTERIZATION DATA
Color coordinates

L*	86.4
a*	1.2
b*	12.4
c*	12.4
Yellow index	25.1

Physical characteristics

Density [g/cm ³]	15.5
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Product applications

Casting in closed systems
Casting without stones

Mechanical characteristics

As cast hardness [HV 0.2]	179.0
Hardness after annealing [HV 0.2]	207.0
Hardness after 70% area red. [HV 0.2]	297.0
Tensile strength (Rm) [Mpa]	638.0
Yield strength (Rp0.2) [MPa]	474.0
Elongation at rupture (A) [%]	32.0

RELATED PRODUCTS LIST
Related Products

LSB455	Master alloy for soldering of 585‰ (14 Kt) white gold
LSB475A	Master alloy for soldering of 750‰ (18 Kt) white gold
LSG409D	Master alloy for soldering of 585‰ (14 Kt) yellow gold
LSG409V	Master alloy for soldering of 750‰ (18 Kt) yellow gold

Alternative Products

WB140W	Master alloy for mechanical working of 375-585-750‰ (9-14-18 Kt) white gold
WD480C	Master alloy for casting of 585-750‰ (14-18 Kt) white gold

CASTING PROCESSING PARAMETERS

Pre-mixing temperature [°C] 1030.0

CASTING TEMPERATURES	Flask from [°C]	Flask to [°C]	Metal from [°C]	Metal to [°C]
< 0.5 mm	660.0	720.0	1010.0	1040.0
0.5 - 1.2 mm	580.0	650.0	990.0	1010.0
> 1.2 mm	460.0	600.0	970.0	990.0

Trees without stones

Let the flask cool down for 10-15 minutes, then quench in water.

Stone-in-place casting trees

Let the flask cool down for 45-60 minutes, then quench in water.

Pickling

Dip in RADIAL solution (50 g/l conc. at 60°C for 5-10 min.), or in sulphuric acid (10% conc. at 50°C for 10 min.)