

GENERAL INFORMATION
General information

Production process	Universal
Color	Red
Color shade	Red
Typology	Master alloy for gold

Melting temperatures

Liquidus [°C]	905.0
Solidus [°C]	865.0
Melting range [°C]	40.0

Commercial composition

Silver (%)	12,00
Zinc (%)	1,00
Copper (%)	87,00



GOLD line

FULL CHARACTERIZATION DATA
Color coordinates

L*	87.0
a*	8.8
b*	16.8
c*	18.9

Mechanical characteristics

As cast hardness [HV 0.2]	160.0
Single step age-hardening hardness [HV 0.2]	320.0

Product applications

Blanking production
Continuous casting
Casting without stones
Age-hardening
Casting in closed systems
Stamping production
Ingot casting
CNC and lathe production
Sheet production

RELATED PRODUCTS LIST
Related Products

GFRED	Red gold flash solution for bath plating 0.8 g/l (ready-to-use)
LSR490	Master alloy for soldering of 375-585-750‰ (9-14-18 Kt) red gold

Alternative Products

OR134	All-purpose master alloy for 375-585-750‰ (9-14-18 Kt) red gold
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CASTING PROCESSING PARAMETERS

Pre-mixing temperature [°C] 1025.0

CASTING TEMPERATURES	Flask from [°C]	Flask to [°C]	Metal from [°C]	Metal to [°C]
< 0.5 mm	650.0	720.0	1010.0	1040.0
0.5 - 1.2 mm	600.0	650.0	990.0	1010.0
> 1.2 mm	560.0	600.0	970.0	990.0

Trees without stones

Remove the flask within 1 minute after pouring, then quench immediately in water.

Stone-in-place casting trees

Remove the flask immediately from the machine. Dip only the bottom part of the tree in cold water and keep under ventilation for 15 minutes. Quench in warm water.

Pickling

Dip in RADIAL solution (50 g/l conc. at 60°C for 2 min.), or in sulphuric acid (10% conc. at 50°C for 5 min.)

MECHANICAL WORKING PARAMETERS

Pre-mixing temperature [°C] 1025.0

Reductions

Sheet - area or thickness (%)	70.0
Wire - diameter (%)	45.0

POURING TEMPERATURES	Countinous from [°C]	Countinous to [°C]	Ingot from [°C]	Ingot to [°C]
Temperatures	1005.0	1085.0	985.0	1025.0

MECHANICAL WORKING ANNEALING	Temp. from [°C]	Temp. to [°C]	Time [min]
<1 mm	620.0	660.0	25.0
1 - 5 mm	620.0	660.0	30.0
>5 mm	620.0	660.0	35.0

Mechanical working quenching

Quench directly in water

AGE HARDENING PROCESSING PARAMETERS

SINGLE STEP AGE-HARDENING TREATMENT	Temperature [°C]	Time [min]	Quenching
Age-hardening	300.0	90.0	Air or in furnace