

GENERAL INFORMATION
General information

Color	Red
Color shade	Red
Production process	Mechanical working
Typology	Master alloy for gold

Melting temperatures

Liquidus [°C]	930.0
Solidus [°C]	905.0
Melting range [°C]	25.0

Commercial composition

Silver (%)	8,00
Copper (%)	89,00
Zinc (%)	3,00



GOLD line

FULL CHARACTERIZATION DATA
Color coordinates

L*	85.5
a*	8.8
b*	15.6
c*	17.9

Physical characteristics

Density [g/cm ³]	13.0
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General characteristics

As cast grain size [μm]	255.0
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Product applications

Massive chain production
Production of tube from continuous casting
Cladding production
Hollow chain production
Hand production
Stamping production
Ingot casting
TIG tube production
Continuous casting
Sheet production
Wire production

Mechanical characteristics

As cast hardness [HV 0.2]	140.0
Hardness after annealing [HV 0.2]	150.0
Hardness after 70% area red. [HV 0.2]	260.0
Single step age-hardening hardness [HV 0.2]	175.0
Tensile strength (Rm) [Mpa]	437.0
Yield strength (Rp0.2) [MPa]	213.0
Elongation at rupture (A) [%]	43.0

RELATED PRODUCTS LIST
Related Products

L1A	Powder for soldering of gold and silver chains
LSR490	Master alloy for soldering of 375-585-750‰ (9-14-18 Kt) red gold
LSR500	Master alloy for soldering of 585-750‰ (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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MECHANICAL WORKING PARAMETERS

Pre-mixing temperature [°C] 1050.0

Reductions

Sheet - area or thickness (%) 75.0

Wire - diameter (%) 45.0

POURING TEMPERATURES

Countinous from [°C]

Countinous to [°C]

Ingot from [°C]

Ingot to [°C]

Temperatures

1030.0

1110.0

1010.0

1050.0

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 a 50% water/50% alcohol solution or 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