

GENERAL INFORMATION
General information

Color	Yellow
Color shade	Pink yellow
Production process	Mechanical working
Typology	Master alloy for gold

Melting temperatures

Liquidus [°C]	890.0
Solidus [°C]	850.0
Melting range [°C]	40.0

Commercial composition

Silver (%)	14,00
Copper (%)	73,00
Zinc (%)	13,00



GOLD line

FULL CHARACTERIZATION DATA
Color coordinates

L*	87.5
a*	4.3
b*	18.5
c*	19.0

Physical characteristics

Density [g/cm ³]	12.7
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General characteristics

As cast grain size [μm]	70.0
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Product applications

Cladding production
Stamping production
Hollow chain production
CNC and lathe production
TIG tube production
Blanking production
Massive chain production
Wire production
Continuous casting
Sheet production
Production of tube from continuous casting
Ingot casting
Wire production

Mechanical characteristics

As cast hardness [HV 0.2]	135.0
Hardness after annealing [HV 0.2]	145.0
Hardness after 70% area red. [HV 0.2]	250.0
Tensile strength (Rm) [Mpa]	448.0
Yield strength (Rp0.2) [MPa]	234.0
Elongation at rupture (A) [%]	41.0

RELATED PRODUCTS LIST
Related Products

CUT10X2	Copper tube, 10.0 mm diameter, 2.0 mm wall thickness, 2500 mm length, cold worked
L1A	Powder for soldering of gold and silver chains
LSG409	Master alloy for soldering of 585‰ (14 Kt) yellow gold
LSG409D	Master alloy for soldering of 585‰ (14 Kt) yellow gold
LSG417F	Master alloy for soldering of 375-585‰ (9-14 Kt) yellow gold
LSG419	Master alloy for soldering of 375‰ (9Kt) yellow gold

Alternative Products

Y144W	Master alloy for mechanical working of 375-585‰ (9-14 Kt) yellow gold
C142GR	Master alloy for casting of 375-585‰ (9-14 Kt) yellow gold

MECHANICAL WORKING PARAMETERS

Pre-mixing temperature [°C] 1010.0

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

990.0

1070.0

970.0

1010.0

MECHANICAL WORKING ANNEALING

Temp. from [°C]

Temp. to [°C]

Time [min]

<1 mm

640.0

680.0

25.0

1 - 5 mm

640.0

680.0

30.0

>5 mm

640.0

680.0

35.0

Mechanical working quenching

Quench directly in a 50% water/50% alcohol solution or in water