

**GENERAL INFORMATION**
**General information**

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

**Melting temperatures**

Melting range [°C]	95.0
Liquidus [°C]	890.0
Solidus [°C]	795.0

**Commercial composition**

Silver (%)	21,00
Copper (%)	65,00
Zinc (%)	14,00



GOLD line

**FULL CHARACTERIZATION DATA**
**Color coordinates**

L*	87.2
a*	1.6
b*	18.0
c*	18.1

**Physical characteristics**

Density [g/cm <sup>3</sup> ]	11.1
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**General characteristics**

As cast grain size [μm]	65.0
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**Product applications**

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

**Mechanical characteristics**

As cast hardness [HV 0.2]	150.0
Hardness after annealing [HV 0.2]	135.0
Hardness after 70% area red. [HV 0.2]	245.0
Single step age-hardening hardness [HV 0.2]	175.0
Tensile strength (Rm) [Mpa]	494.0
Yield strength (Rp0.2) [MPa]	284.0
Elongation at rupture (A) [%]	28.0

**RELATED PRODUCTS LIST**
**Related Products**

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
TOMBACP	Tombac plate, 10.0 mm thickness, 100.0 mm width

**Alternative Products**

Y144W	Master alloy for mechanical working of 375-585‰ (9-14 Kt) yellow gold
SCA5	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

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