

**MASTER
ALLOY**
Y144W 917‰

MASTER ALLOY FOR MECHANICAL WORKING OF 375-585‰ (9-14 KT) YELLOW GOLD

GENERAL INFORMATION
General information

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

Melting temperatures

Liquidus [°C]	945.0
Solidus [°C]	920.0
Melting range [°C]	25.0

Commercial composition

Silver (%)	16,00
Copper (%)	68,00
Zinc (%)	16,00



GOLD line

FULL CHARACTERIZATION DATA
Color coordinates

L*	86.1
a*	7.9
b*	26.3
c*	27.4

Physical characteristics

Density [g/cm ³]	17.0
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Mechanical characteristics

As cast hardness [HV 0.2]	75.0
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MECHANICAL WORKING PARAMETERS

Pre-mixing temperature [°C] 1060.0

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

1065.0

1145.0

1045.0

1085.0

MECHANICAL WORKING ANNEALING

Temp. from [°C]

Temp. to [°C]

Time [min]

<1 mm

700.0

700.0

30.0

1 - 5 mm

700.0

700.0

35.0

>5 mm

700.0

700.0

40.0

Mechanical working quenching

Quench directly in water