

**MASTER  
ALLOY**
**Y145T 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]	950.0
Solidus [°C]	920.0
Melting range [°C]	30.0

**Commercial composition**

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



GOLD line

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

L*	85.8
a*	8.5
b*	26.4
c*	27.7

**Physical characteristics**

Density [g/cm <sup>3</sup> ]	17.2
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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] 1070.0

**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

1050.0

1130.0

1030.0

1070.0

**MECHANICAL WORKING ANNEALING**

Temp. from [°C]

Temp. to [°C]

Time [min]

&lt;1 mm

700.0

700.0

25.0

1 - 5 mm

700.0

700.0

30.0

&gt;5 mm

700.0

700.0

35.0

**Mechanical working quenching**

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