

**MASTER
ALLOY**
Y143T 750‰

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

GENERAL INFORMATION
General information

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

Melting temperatures

Liquidus [°C]	860.0
Solidus [°C]	840.0
Melting range [°C]	20.0

Commercial composition

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



GOLD line

FULL CHARACTERIZATION DATA
Color coordinates

L*	81.2
a*	4.0
b*	19.1
c*	19.5

Physical characteristics

Density [g/cm ³]	14.7
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Product applications

Ingot casting
Sheet production
Wire production

Mechanical characteristics

As cast hardness [HV 0.2]	170.0
Hardness after 70% area red. [HV 0.2]	270.0

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] 980.0

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

960.0

1040.0

940.0

980.0

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