

GENERAL INFORMATION
General information

Typology	Gold solder
Color	Red
Color shade	Pink
Production process	Brazing
Grain refinement level	Minimum
Deoxidation level	Minimum

Commercial composition (%)

CU	75.6
IN	20.0
AG	4.4

Melting Temperatures

Solidus [°C]	790.0
Liquidus [°C]	860.0
Melting range [°C]	70.0

FULL CHARACTERIZATION DATA
Color coordinates

L *	a*	b*	c*	Yellow Index
88.8	4.1	16.4	16.9	

Mechanical characteristics

As cast hardness [HV 0.2]	150.0
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Physical characteristics

Density [g/cm ³]	11.3
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Product applications

Soldering in belt furnace

MECHANICAL WORKING PARAMETERS
Pre-melting temperature

Temperature [°C] 980

Reductions

Wire - diameter (%)	30.0
Sheet - area or thickness (%)	50.0

POURING TEMPERATURES

Countinous from [°C]

Countinous to [°C]

Ingot to [°C]

Ingot from [°C]

Temperatures

980

1060

940

980

MECHANICAL WORKING ANNEALING

Temp. from [°C]

Temp. to [°C]

Time [min]

< 1 mm

500

530

15

1 - 5 mm

500

530

20

> 5 mm

500

530

25

Mechanical working quenching

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

LSR489 375‰

MASTER ALLOY FOR SOLDERING OF 585-750‰ (14-18 KT) RED GOLD

Preliminary checks

Please note that in order to correctly evaluate the alloy's hardness to solderability, it is advised to make a numerical calculation by subtracting the base metal solidus temperature value from the solder liquidus temperature value. The higher the number resulting, the more solderable (or the less hard) the alloy can be considered. Please refer to the technical guideline for solders available in the website for further information.