

GENERAL INFORMATION
General information

Color	White
Production process	Soldering and brazing
Typology	Solder for gold
Color shade	Off-white

Melting temperatures

Melting range [°C]	85.0
Liquidus [°C]	800.0
Solidus [°C]	715.0

Working temperatures

Minimum working temperature [°C]	790.0
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Commercial composition

Silver (%)	12,00
Copper (%)	41,00
Nickel (%)	7,00
Zinc (%)	31,00
Indium (%)	9,00



JOINING line

FULL CHARACTERIZATION DATA
Color coordinates

L*	85.2
a*	-0.3
b*	16.1
c*	16.1
Yellow index	30.3

Physical characteristics

Density [g/cm ³]	14.3
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General characteristics

As cast grain size [μm]	280.0
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Mechanical characteristics

As cast hardness [HV 0.2]	180.0
Hardness after 70% area red. [HV 0.2]	195.0
Tensile strength (Rm) [Mpa]	418.0
Elongation at rupture (A) [%]	36.0
Yield strength (Rp0.2) [MPa]	306.0
Hardness after annealing [HV 0.2]	165.0

MECHANICAL WORKING PARAMETERS

Pre-mixing temperature [°C] 925.0

Reductions

Wire - diameter (%) 45.0

Sheet - area or thickness (%) 70.0

POURING TEMPERATURES

Countinous from [°C]

Countinous to [°C]

Ingot from [°C]

Ingot to [°C]

Temperatures

905.0

985.0

925.0

885.0

MECHANICAL WORKING ANNEALING

Temp. from [°C]

Temp. to [°C]

Time [min]

<1 mm

560.0

580.0

20.0

1 - 5 mm

560.0

580.0

25.0

>5 mm

560.0

580.0

30.0

Mechanical working quenching

Let cool in air down to 550°C, then quench in a 50% water/50% alcohol solution or in water

PRODUCT TECHNICAL GUIDELINES**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.