

TECHNICAL SHEET

JOINING line

LSB475 750‰

MASTER ALLOY FOR SOLDERING OF 750% (18 KT) WHITE GOLD

GENERAL INFORMATION

General information	
Typology	Gold solder
Color	White
Color shade	Off-white
Production process	Brazing
Grain refinement level	Minimum
Deoxidation level	Minimum

Commercial com	position (%)
CU	37.0
ZN	35.0
AG	12.0
IN	8.0
NI	8.0

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

FULL CHARACTERIZATION DATA

Color co	ordinates				Mechanical characteristics	
L *	a*	b*	C*	Yellow Index	As cast hardness [HV 0.2]	180.0
85.2	-0.3	16.1	16.1	30.3	Hardness after 70% area red. [HV 0.2]	195.0
05.2	-0.5	10.1	10.1	30.3	Hardness after annealing [HV 0.2]	165.0
					Tensile strength (Rm) [Mpa]	418.0
					Yield strength (Rp0.2) [MPa]	306.0
					Elongation at rupture (A) [%]	36.0

Physical characteristics	
Density [g/cm³]	14.3
General characteristics	
As cast grain size [µm]	280.0
Product applications	



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MECHANICAL	. WORKING PARAMETERS	
WIEGHANICAL	. WURKING PARAMETERS	

Pre-melting temperature		Reductions	
Temperature [°C]	025	Wire - diameter (%)	45.0
remperature [O]	925	Sheet - area or thickness (%)	70.0

POURING TEMPERATURES	Countinous from [°C]	Countinous to [°C]	Ingot to [°C]	Ingot from [°C]	
Temperatures	905	985	885	925	

MECHANICAL WORKING ANNEALING	Temp. from [°C]	Temp. to [°C]	Time [min]	
< 1 mm	560	580	20	
> 5 mm	560	580	25	
1 - 5 mm	560	580	30	

Mechanical working quenching

Air cool down to 550°C, then quench in 50%/50% water/alcohol solution or in water.



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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.