

TECHNICAL SHEET

JOINING line

LSG408 750‰

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

GENERAL INFORMATION

General information	
Typology	Gold solder
Color	Yellow
Color shade	Greenish yellow
Production process	Brazing
Grain refinement level	Minimum
Deoxidation level	Minimum

Commercial cor	mposition (%)
CU	34.0
AG	26.0
ZN	26.0
IN	14.0

Melting Temperatures

 Solidus [°C]
 670.0

 Liquidus [°C]
 760.0

 Melting range [°C]
 90.0

FULL CHARACTERIZATION DATA

Color co	ordinates				Mechanical characteristics	
L *	a*	b*	c*	Yellow Index	As cast hardness [HV 0.2]	190.0
88.0	0.2	20.5	20.5		Hardness after 70% area red. [HV 0.2]	215.0
00.0	0.2	20.5	20.5		Hardness after annealing [HV 0.2]	200.0
					Tensile strength (Rm) [Mpa]	394.0
					Yield strength (Rp0.2) [MPa]	318.0
					Elongation at rupture (A) [%]	13.0

Physical characteristics	
Density [g/cm³]	14.4
General characteristics	
As cast grain size [µm]	120.0
Product applications	



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MECHANICAL	WORKING PARAMETERS
WEGHANICAL	WURKING PARAMETERS

 Pre-melting temperature
 Reductions

 Temperature [°C]
 880

 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	860	940	840	880	

MECHANICAL WORKING ANNEALING	Temp. from [°C]	Temp. to [°C]	Time [min]	
< 1 mm	520	550	20	
> 5 mm	520	550	25	
1 - 5 mm	520	550	30	

Mechanical working quenching

Quench directly 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.