

TECHNICAL SHEET

SILVER line

LSA440 925‰

MASTER ALLOY FOR SOLDERING OF 925% SILVER

GENERAL INFORMATION

General informationTypologyMaster alloy for silverColorSilverProduction processBrazingGrain refinement levelMinimumDeoxidation levelMinimum

Commercial composition (%)
CU 55.0
ZN 45.0

Melting Temperatures

 Solidus [°C]
 675.0

 Liquidus [°C]
 695.0

 Melting range [°C]
 20.0

FULL CHARACTERIZATION DATA

Color coordinates					Mechanical characteristics		
L *	a*	b*	c*	Yellow Index	As cast hardness [HV 0.2]	145.0	
87.3	-0.6	13.2					

Physical characteristics

Density [g/cm³] 9.5

Product applications



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MECHANICAL WORKING PARAMETERS

Pre-melting temperature		Reductions	
Temperature [°C]	015	Wire - diameter (%) 40.0	.0
remperature [O]	815	Sheet - area or thickness (%) 60.0	0

POURING TEMPERATURES	Countinous from [°C]	Countinous to [°C]	Ingot to [°C]	Ingot from [°C]	
Temperatures	795	875	775	815	

520	15	
520	20	
520	25	
	520	520 25

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.

Notes on alloy title

SOFT SOLDER: LSA440 35% + Ag 65%.

MEDIUM SOLDER: LSA440 25% + Ag 75%.

HARD SOLDER: LSA440 15% + Ag 85%.

The information contained in the technical datasheet refer to a solder containing 65% silver.