

Color coordinates

Casting in closed systems Casting without stones

TECHNICAL SHEET

SILVER line

AG115MA 925‰

READY-TO-USE 925% SILVER ALLOY FOR CASTING IN DROPS

GENERAL INFORMATION

General information	
Typology	Ready to use silver
Color	Silver
Production process	Casting
Grain refinement level	High
Deoxidation level	Medium

Commercial composition (%)			
AG	93.0		
CU	4.0		
ZN	3.0		

Melting Temperatures	
Solidus [°C]	790.0
Liquidus [°C]	890.0
Melting range [°C]	100.0

FULL CHARACTERIZATION DATA

L *	a*	b*	C*	Yellow Index
95.5	-0.2	3.7	3.7	6.7
Physical	character	istics		
Density	[g/cm³]			10.3
General characteristics				
As cast of	grain size [ˌ	µm]		270.0
Product applications				
Stone-in	-place cast	ing		

Mechanical characteristics	
As cast hardness [HV 0.2]	55.0
Hardness after 70% area red. [HV 0.2]	165.0
Hardness after annealing [HV 0.2]	60.0
Double step age-hardening hardness [HV 0.2]	120.0
Single step age-hardening hardness [HV 0.2]	90.0
Tensile strength (Rm) [Mpa]	255.0
Yield strength (Rp0.2) [MPa]	100.0
Elongation at rupture (A) [%]	33.0



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CASTING PROCESSING PARAMETERS

POURING TEMPERATURES	Flask from [°C]	Flask to [°C]	Metal from [°C]	Metal to [°C]
< 0.5 mm	560	600	990	1020
0.5 - 1.2 mm	520	560	970	990
> 1.2 mm	480	520	950	970

Trees without stones

Let the flask cool down in the chamber for 1 minute after pouring. Take the flask out of the machine without shaking it, let it cool for 15 minutes in air, then quench in water.

Stone-in-place casting trees

Let the flask cool down for 30-45 minutes, then quench it in water.

Pickling

Dip in RADIAL solution (50 g/l conc. at 60°C) for 2 minutes, or in sulphuric acid (10% concentration at 50°C) for 5 minutes.

AGE HARDENING PROCESSING PARAMETERS

SINGLE STEP	Temperature [°C]	Time [min]	Quenching	
Age-hardening	300.0	90.0	In air or in furnace	

DOUBLE STEP	Temperature [°C]	Time [min]	Quenching	
Homogenization	730.0	40.0	In water, immediate	
Age-hardening	300.0	60.0	In air or in furnace	