

TECHNICAL SHEET

SF928CH 925‰

MASTER ALLOY FOR CASTING OF 925‰ SILVER

GENERAL INFORMATION

General information	
Туроlоду	Master alloy for silver
Color	Silver
Production process	Casting
Grain refinement level	Low
Deoxidation level	Medium

Melting Temperatures				
Solidus [°C]	730.0			
Liquidus [°C]	900.0			
Melting range [°C]	170.0			

Commercial composition (%) CU 74.0 ZN 26.0

SILVER line

FULL CHARACTERIZATION DATA

Color coordinates					Mechanical characteristics		
L*	a*	b*	C*	Yellow Index	As cast hardness [HV 0.2]	50.0	
93.9 -0.6	-0.6 6.2 6.2	12.0	Hardness after 70% area red. [HV 0.2] Hardness after annealing [HV 0.2]	160.0 70.0			
					Double step age-hardening hardness [HV 0.2]	110.0	
					Tensile strength (Rm) [Mpa]	251.0	
					Yield strength (Rp0.2) [MPa]	113.0	
					Elongation at rupture (A) [%]	26.0	
Physica	I character	istics					
Density		131103		10.3	1		
General	characteri	stics					
As cast	grain size [µm]		180.0	-		
Product	applicatio	ns					
Casting	n-place cast in closed s	ystems			-		
•	in open sys						
Casting	without sto	nes					

13/04/2023



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CASTING PROCESSING PARAMETERS

Pre-melting temperature				
Temperature [°C] 1020		0		
POURING TEMPERATURES	Flask from [°C]	Flask to [°C]	Metal from [°C]	Metal to [°C]
< 0.5 mm	560	600	1000	1030
0.5 - 1.2 mm	520	560	980	1000
> 1.2 mm	480	520	960	980

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.

DOUBLE STEP	Temperature [°C]	Time [min]	Quenching	
Homogenization	650.0	40.0	In water, immediate	
Age-hardening	300.0	60.0	In air or in furnace	

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