

AussieSIL



S935M

Technical Chart 925

S935M is mechanical working master alloy for 925-950 silver. Most suitable applications as below:

- Can be used in continuous casting
- Can be used in Wire Production
- Can be used in Sheet Production
- Can be used in CNC and Lathe Production
- Suitable for mechanical working application like stamped items, solid and hollow chains,

Physical Characterization Data

COLOR	Silvery White
DENSITY [G/CM ³]	10.39
MELTING TEMPERATURE	910 °C
HARDNESS AS CAST	79 HV
HARDNESS (AFTER COLD WORK 70%)	163 HV
HARDNESS (AFTER ANNEALING)	83 HV
HARDNESS (AFTER AGE HARDNING)	123 HV

Mechanical Working Parameters

PRE-MIXING TEMPERATURE [°C]	1030-1050
PICKLING	Sulphamic acid (%30)

Casting Temperature	Metal - from [°C]	Metal - to [°C]
INGOT MAKING	1030	1050
CONTINUOUS CASTING	1070	1110

Recommended Reductions

SHEET - AREA OR THICKNESS [%]	70
WIRE - DIAMETER [%]	50

Mechanical working recommended annealing	Temperature [°C]	Time [min]
> 5 mm	570 - 630	30
1 - 5 mm	570 - 630	25
< 1 mm	570 - 630	20

Reusing Scrap Instructions

Before reuse of scraps clean the scrap in best possible manner with the ultrasonic and magnetic polishing machine and remove all the dirt, oil, and greases from the metals. The scrap use percentage is not more than 50%.



Hardening Treatment

300°C for 100 minutes cool very slowly possibly inside the furnace with a protection of hydrogen. To obtain further hardening increase the time in the furnace.

Notes:-

The above directions are only indicative. Strong variations to the above data are possible, depending on personal experience. Please, do not hesitate to contact us for further information.

