

**METALOR**<sup>®</sup>**Data sheet for alloy  
Ag 999.9/81**

Division Watches and Jewelry

Colour **silver**Code **81****General description** fine Silver**Physical properties** Specific gravity [g/cm<sup>3</sup>] **10.5** Melting range [°C] **962**

Mechanical properties			Annealed	20% cold worked	90% cold worked
Vickers hardness		[HV1]	45	80	100
Yield hardness	Rm	[Mpa]	180	220	300
Elastic limit	Rp0.2	[MPa]	70	190	260
Plastic elongation	A	[%]	45	4	2

**Processing guidelines****ANNEALING**

300 °C for 20 to 30 minutes then quenched in water. In order to avoid oxidation, work under reducing atmosphere.

**COLD WORKING**

The amount of coldwork completed before annealing should be between 30% and 90% reduction in area.

**SOLDERING**

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**PICKLING**

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