

**METALOR**<sup>®</sup>**Data sheet for alloy****Ag 925/177**

Division Watches and Jewelry

Colour **white**Code **177**

**General description** 925 o/oo Silver alloy, for universal use. It can easily be cupped, stamped, rolled, polished, drawn and machined. Suitable for casting

**Physical properties** Specific gravity [g/cm<sup>3</sup>] **10.35** Melting range [°C] **830-890**

Mechanical properties			Annealed	20% cold worked	90% cold worked
Vickers hardness		[HV1]	65	105	150
Yield hardness	Rm	[Mpa]	280	370	620
Elastic limit	Rp0.2	[MPa]	140	340	550
Plastic elongation	A	[%]	35	3	1

**Processing guidelines**

<b>ANNEALING</b>	650 °C for 20 to 30 minutes then quenched in water or cooling under protective atmosphere. In order to avoid oxidation, work under reducing atmosphere.
<b>COLD WORKING</b>	The amount of coldwork completed before annealing should be between 30% and 75% reduction in area.
<b>SOLDERING</b>	By torch or furnace. The cadmium-free solders N° 833 (740-760°C) - 832 (720-740°C) and 830 (680-695°C) are strongly recommended. For alternatives please see list of solders.
<b>PICKLING</b>	with DESOXYD (following operating instructions) or with hot 10% sulphuric acid.
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18.03.2005 [METALOR Technologies SA](http://www.metalor.com) - Av. du Vignoble - CH-2009 Neuchâtel  
Phone: +41(0)32 720 61 11 - <http://www.metalor.com/watch>

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