

METALOR[®]**Data sheet for alloy****Pd 999.5/96**

Division Watches and Jewelry

Colour **palladium**Code **96****General description** fine Palladium**Physical properties** Specific gravity [g/cm³] **12** Melting range [°C] **1554**

Mechanical properties			Annealed	20% cold worked	90% cold worked
Vickers hardness		[HV1]	50		110
Yield hardness	Rm	[Mpa]	180		360
Elastic limit	Rp0.2	[MPa]	60		340
Plastic elongation	A	[%]	40		2

Processing guidelines**ANNEALING**

600 °C for 20 to 30 minutes then quenched in water. In order to avoid oxidation, work under neutral atmosphere (nitrogen or argon).

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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