

**METALOR**<sup>®</sup>**Data sheet for alloy****Pt 999.9/75**

Division Watches and Jewelry

Colour **platinum**Code **75****General description** fine Platinum**Physical properties** Specific gravity [g/cm<sup>3</sup>] **21.45** Melting range [°C] **1768**

<b>Mechanical properties</b>			<b>Annealed</b>	<b>20% cold worked</b>	<b>90% cold worked</b>
<b>Vickers hardness</b>		<b>[HV1]</b>	45		100
<b>Yield hardness</b>	<b>Rm</b>	<b>[Mpa]</b>	150		320
<b>Elastic limit</b>	<b>Rp0.2</b>	<b>[MPa]</b>	80		300
<b>Plastic elongation</b>	<b>A</b>	<b>[%]</b>	40		2

**Processing guidelines****ANNEALING** 700 °C for 20 to 30 minutes**COLD WORKING** The amount of coldwork completed before annealing should be between 30% and 90% reduction in area.**SOLDERING** -**PICKLING** -

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04.04.2003

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