

METALOR[®]**Data sheet for alloy
Ag 999/83**

Division Watches and Jewelry

Colour **silver**Code **83****General description** fine Silver**Physical properties** Specific gravity [g/cm³] **10.5** Melting range [°C] **962**

| Mechanical properties | | | Annealed | 20% cold worked | 90% cold worked |
|-----------------------|-------|-------|----------|-----------------|-----------------|
| Vickers hardness | | [HV1] | 50 | | 110 |
| Yield hardness | Rm | [Mpa] | 300 | | 380 |
| Elastic limit | Rp0.2 | [MPa] | 100 | | 340 |
| Plastic elongation | A | [%] | 40 | | 1 |

Processing guidelines

| | |
|---------------------|--|
| ANNEALING | 350 °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 | - |
| PICKLING | - |
| REMARK | recrystallization at 120 °C |
| - | - |

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