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T13



High Performance Mechanical

18 kt

GENERAL INFORMATION

Carats: 18 kt, suitable also for 14 kt (see specific tech data sheet)

Colour: white – standard Advised use: mechanical works

MECHANICAL WORKS	stamping		chains		tube		spring		
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Density: 14,59 g/cm³
Hardness (as cast): 192 HV
Hardness (after cold work 70%): 294 HV
Hardness (after annealing): 184 HV
Hardness (after age hardening): 271 HV

Nickel release UNI EN 1811:2011: Nickel release test on finished objects is required

DIRECTIONS FOR SUGGESTED USE

Melting temperature: 910 °C

Casting temperature:

80 °C over its melting temperature for continuous casting with sinker thermocouple.

100 °C over its melting temperature to cast into ingot-mould and continuous casting

Ingot-mould temperature: 150 °C

Cooling of ingots: quick in lukewarm water (about 40 °C)

Annealing: 660 °C for 20 minutes followed by a quick cooling in hot

water (40 °C min.)

Age hardening: Step 1: solubilization

720 °C for 30 minutes. Cooling quickly in lukewarm water

(about 40 °C), better if with alcohol.

Step 2: hardening

300 °C for 2 hours. Cooling at room temperature.

HINTS

- Recommended Pandora Alloys 18kt white solders: TB18 (soft), MB18 (medium), FB18 (hard)
- Suggested Pandora Alloys plating solutions: Rhodium P2 and Palladium PDSOL/BE

The above directions are only indicative. Strong variations to the above data are possible, depending on personal experience. Please, do not hesitate to contact us for further information.

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