

Via Galvani, 14 - 20094 Corsico (MI) - Italy Tel. (+39) 02 45864035 - Fax (+39) 02 45869840 e-mail: info@pandoralloys.com Internet: www.pandoralloys.com



ELA2

Advised use:





High Performance Mechanical High Performance Casting

18 kt

GENERAL INFORMATION

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

Colour: white – standard

colour coordinates: L*=87.7 a*=3.5 b*=16.3 universal (both mechanical works and casting)

MECHANICAL WORKS stamping chains tube spring Closed systems open systems pre-set stones

Density: 14,89 g/cm³
Hardness (as cast): 161 HV
Hardness (after cold work 70%): 269 HV
Hardness (after annealing): 158 HV
Hardness (after age hardening): 220 HV

DIRECTIONS FOR SUGGESTED USE

Melting temperature: 880 °C

Casting temperature:

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

100 °C over its melting temperature to cast with centrifugal machine

120 °C over its melting temperature to cast in vacuum machines with controlled atmosphere

140 °C over its melting temperature to cast in outdoor cylinders with vacuum

Ingot-mould temperature: 150 °C

Cylinders temperature: from 550 °C to 650 °C depending on the machine and objects

dimensions

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

Cooling casted objects: in water after 10 minutes

Annealing: 620 °C for 20 minutes followed by a quick cooling in hot water

(40 °C min.), better if with alcohol

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.

Nickel release UNI EN 1811:2015: 0,05 µg/cm²/week - COMPLIANT (max. 0.88 µg/cm²/week)

Nickel release test on finished objects is required

HINTS

* Recommended Pandora Alloys 18 kt 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.