

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



18kt

## 5P18

## **GENERAL INFORMATION**

Carats:

Colour: Advised use: 18kt , suitable also for 14kt (see specific tech data sheet) and 8, 9, 10kt (see specific tech data sheet) intense red universal (both mechanical works and casting)

**Classic Mechanical** 

MECHANICAL WORKS	stamping	chains	tube		spring	
CASTING	closed systems	open systems	pre-set stones		ones	

Density:	14.60 g/cm³
Hardness (as cast):	170 HŬ
Hardness (after cold work 70%):	271 HV
Hardness (after annealing):	168 HV
Hardness (after age hardening):	300 HV

## DIRECTIONS FOR SUGGESTED USE

Melting temperature:

910 °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 machines

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: Cylinders temperature:	150 °C from 550 °C to 650 °C depending on the machine and objects dimensions
Cooling of ingots: Cooling casted objects:	quick in lukewarm water (about 40 °C) in water after 10 minutes
Annealing:	650 °C for 20 minutes followed by a quick cooling in hot water (40 °C min.)
Age hardening:	<i>Step 1: solubilization</i> 680 °C for 30 minutes. Cooling quickly in warm water (about 40 °C).
	<i>Step 2: hardening</i> 300 °C for 2 hours. Cooling at room temperature.

## HINTS

Recommended Pandora Alloys18kt 5N red solders: TR5NJ (soft), MR5NJ (medium), FR5NJ (hard)

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.