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5P18/3

Advised use:





High Performance Mechanical High Performance Casting

18 kt

GENERAL INFORMATION

Carats: 18 kt , suitable also for 8, 9, 10 kt (see specific tech data sheet)

and 14 kt (see specific tech data sheet)

Colour: intense red colour coordinates: L*=85.1 a*=10.8 b*=16.0

universal (both mechanical works and casting)

Special alloy for extra light items

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

Density: 14,34 g/cm³
Hardness (as cast): 184 HV
Hardness (after cold work 70%): 289 HV
Hardness (after annealing): 180 HV
Hardness (after age hardening): 308 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: 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.

Cooling casted objects (with stones): in water after 30/40 minutes.

Annealing: 650 °C for 20 minutes followed by a quick cooling in hot

water (40 °C min.)

Age hardening: Step 1: solubilization

680 °C for 30 minutes. Cooling quickly in warm water (about

40 °C).

Step 2: hardening

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

HINTS

Recommended Pandora Alloys 18 kt 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.

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