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5P18/L



High Performance Mechanical Classic Casting



18kt

TECH DATA

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 colour coordinates: L*=84.1 a*=11.0 b*=18.0

277 HV 170 HV 310 HV

universal (both mechanical works and casting)								
RKS	stamping		chains		tube		spring	

MECHANICAL WORKS	stamping		chains	tube		spring	
CASTING	closed systems		open systems	pre-s	set st	ones	
•	14,56 g/cm³ 174 HV						

DIRECTIONS FOR SUGGESTED USE

Melting range (Solidus – Liquidus): 902 - 910 °C

Casting temperature:

100 °C over its Liquidus temperature to cast into ingot-mould and continuous casting 100 °C over its Liquidus temperature to cast with centrifugal machines and vacuum machines with controlled atmosphere

140 °C over its Liquidus 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:	670 °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 Alloys 18kt 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.