

PLATINUM ALLOYS



PLATINA®

PLATINA® is a family of **950‰ platinum alloys** suitable for jewellery production using **lost-wax investment casting** and **plastic deformation** processes.



DEEP DRAWING -
ONE SIDE FLAT



DEEP DRAWING



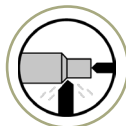
STONE IN PLACE
CASTING & WITHOUT
STONES



MACHINE MADE
SOLID CHAIN



MACHINE MADE
HOLLOW CHAIN



MACHINING

The alloys in this family make it possible to create jewellery with **high hardness** and excellent **wear resistance**, the fundamental characteristics of platinum jewellery. PLATINA® is the answer to the long-standing problem of the low wear resistance of platinum jewellery.



The PLATINA® family is offered in **two compositions**:

PLATINA103 is characterised by **high hardness**. The alloy increases goes from about 180HV as cast to 220HV after adequate heat treatment. This particular advantage is combined with **excellent form filling capacity** due to its **low liquidus temperature**, about 200°C lower than other conventional platinum alloys.

PLATINA105 is a **binary platinum-ruthenium alloy** with good **as-cast hardness** of approximately 130HV, and is, in fact, the **standard composition** used by many **platinum jewellery manufacturers**.





HIGH HARDNESS

LOW MELTING
TEMPERATURE

EXCELLENT
FORM FEELING



BEST SELLERS - PLATINA®

PLATINA103



PHYSICAL PROPERTIES

Temp. Solidus °C	1505
Temp. Liquidus °C	1595
Density [g/cm3]	19.78
Colour Coordinates L*	85.26
Colour Coordinates a*	0.97
Colour Coordinates b*	5.85

CHEMICAL PROPERTIES

Pt	95.0%
Cu	1.0%
Other elements	4.0%

MECHANICAL PROPERTIES

Tensile strenght as cast [MPa]	566
Yeld strenght as cast [MPa]	331
Elongation as cast [%]	23
Hardness as cast [HV]	185
Hardness after hardening [HV]	220

PLATINA105



PHYSICAL PROPERTIES

Temp. Solidus °C	1780
Temp. Liquidus °C	1795
Density [g/cm3]	20.75
Colour Coordinates L*	87.00
Colour Coordinates a*	0.48
Colour Coordinates b*	3.56

CHEMICAL PROPERTIES

Pt	95.0%
Other elements	5.0%

MECHANICAL PROPERTIES

Hardness as cast [HV]	135
-----------------------	-----





Where Passions Melt