

colours of white

White implies brilliance, brightness and purity.

White in jewelry is defined primarily by the visual perception of each individual person and at the production level, then scientifically, by the colour coordinates of the galvanic deposit detected by the colorimeter (spectrophotometer).

The level of whiteness is determined by the choice of plating solution used to finish the jewelry or fashion accessory. Galvanic solutions differ in chemical formulation and type of dissolved metal.

Berkem produces a wide range of galvanic solutions specifically designed to achieve extraordinary whites by meeting the most diverse requirements of style, application and technology.

Berkem's precious metal-based plating solutions, offered for fine jewelry, ensure that surfaces can be treated by imparting the highest standards of decorative quality and desired technical characteristics such as oxidation resistance, corrosion protection and increased surface hardness.

The different colours of white, in electroplating, are obtained from chemical formulations that take advantage of the properties of precious metal sponges such as Rhodium, Platinum, Palladium and Platinum/Ruthenium alloys.

RODINOR[®] is the rhodium-based line of solutions, for bath and pen plating decorative processes. The unique formulations, characterized by innovative additives, guarantee unique levels of whiteness and gloss. This line consists of different types of solutions suited to various production and style needs, with well-defined shades of white depending on the type of jewelry they are applied to; capable of penetrating perfectly and quickly under stones and enhancing their brilliance or coating the surface evenly and uniformly.

WHITENOR[®] is a platinum-ruthenium based electroplating bath process and is the best alternative on the market to rhodium, platinum or palladium based solutions, both in terms of colour and cost. The white colour of the resulting deposit is an excellent compromise between the brightness of rhodium white and the intensity of platinum white. The WHITENOR[®] line is proposed for decorative and thickness plating processes and can guarantee the treatment of any type of metal surface, including silver, in a direct way without the need for a pre-layer.

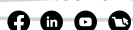
PLATINOR[®] is the line of pure platinum-based plating bath solutions for decorative and thickness processes that are easy to use and maintain. PLATINOR[®] is the perfect alternative to palladium-based solutions used as intermediate layers to stop oxidation in plating processes especially on vile metals and silver.

PALLADOR[®] is the line of decorative and thickness plating solutions for both bath and pen-based on palladium and palladium-indium and palladium-nickel alloys. PALLADOR[®] provides extremely hard and compact deposits aimed at preventing the spread of oxidative phenomena. The deposit obtained with PALLADOR[®] 102 is completely anallergic and free from toxic heavy metals as nickel. It is a perfect choice for application on fashion accessories.

Berkem srl

Via della Provvidenza, 63
35030 Rubano (PD) Italia
T +39 049 89 78 072

info@berkem.it
www.berkem.it





Rh

RODINOR® 152
brilliant white rhodium
solutions for bath plating

OPERATIONAL SETTINGS

40 sec time	40° C temperature
4.0 V voltage	Ti/Pt anode

RODINOR® 152 is a dual-component (with a separate additive) rhodium process extremely white and shiny with incomparable technical and qualitative properties, perfect to exalt diamond brightness, with a high strength against pollution.

Suitable for any use, it is characterized by the high range of working temperatures (from 25°C to 70°C) and by the long lasting performance of the deposit (the solution works until a Rh concentration of 0,6 g/l)

RODINOR® 152
L* 91.2 a* 1.0 b*1.5



RODINOR®

Pt
Ru

WHITENOR® 102
white platinum-ruthenium
solutions for bath plating

OPERATIONAL SETTINGS

90 sec time	55° C temperature
4.0 V voltage	Ti/Pt anode

WHITENOR® 102 is the surprising Berkem's process for platinum-ruthenium-based decorative and thickness (up to 3 microns) bath plating that guarantees extremely white and shiny deposits free from any yellowish reflections. WHITENOR® 102 deposits directly on any precious metal surface including silver and it has excellent performances as intermediate layer before final colour finishing.

WHITENOR® 102 is the perfect alternative to traditional rhodium, pure platinum and palladium solutions

WHITENOR® 102
L* 88.0 a* 0.55 b*2.8



WHITENOR®

Pt

PLATINOR® 102 | 202
white platinum solutions
for bath plating

OPERATIONAL SETTINGS

60-90 sec time	50° C (102) 30° C (202) temperature
3.0 V voltage	Ti/Pt anode

PLATINOR® 102 is a pure platinum plating solutions that can be used for flash process for white finishes above all on platinum 950 alloy jewels. It is extremely easy to use and to maintain.

PLATINOR® 202 is a pure platinum flash plating solution suitable for superior results as pre-layer before rhodium. PLATINOR 202 works at room temperature ensuring faster process timing and it is characterized by an excellent throwing power.

PLATINOR® 102 and 202 are the perfect alternative to palladium plating solutions as intermediate layer.

PLATINOR® 102
L* 87.5 a*0.6 b*3.5
PLATINOR® 202
L* 87.0 a* 0.7 b*4.2



PLATINOR®

Pd

PALLADOR® 102
white palladium solutions
for bath plating

OPERATIONAL SETTINGS

90 sec time	28° C temperature
2.2 V voltage	Ti/Pt anode

PALLADOR® 102 is a pure palladium plating solution for white decorative finishes, moreover, when used as a plating prelayer on silver or further base metals, becomes a barrier to prevent oxidation. Thanks to its characteristics of compactness and resistance PALLADOR® 102 is particularly suitable for use as an intermediate layer between white gold and rhodium, considerably reducing the possibility of scratches and abrasion of the rhodium-plated layer.

The deposit obtained with PALLADOR® 102 is completely anallergic and free from toxic heavy metals as nickel. It is a perfect choice for application on fashion accessories.

PALLADOR® 102
L* 85.5 a* 0.8 b*4.2



PALLADOR®