

RU2PN

Technical chart

Last revision

20/03/2014

READY TO USE RUTHENIUM PLATING SOLUTION 2g/100ml CARBON

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Colour **Black**

[L: 56,4 a: 2,7 b: 1,3 c: 3,0]

Product description

RU2PN is a pen plating solution of the "**Ultrablack Ruthenium**" line for decorative ruthenium pen applications. The main features of this electrolyte are:

- *Ready to use solution*
- *Bright deposits in anthracite black color*
- *Room temperature depositions*
- *Quick deposition on surfaces*
- *Excellent distribution*
- *Good resistance to abrasion and wearing*
- *Ideal for decorative plating of jewellery and watches*

Recommended applications

RU2PN has been specifically developed for decorative application using a galvanic pen plater on the surface of precious metals and small non-ferrous items for the creation of twin-coloured deposits.

Deposit data

Density [g/cm ³]	10.5
Hardness [HV 0.01]	800-900
Thickness [μm]	0.05-0.20
Appearance	Shiny

Operating data

	Range	Optimum
Optimal working concentration [Ruthenium, g/l]	---	20
Time of exposure [s]	Few seconds	---
Operating temperature [°C]	18-25	20
Voltage [V]	10.0-15.0	10
pH	---	0-1

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Additional informations

Packaging

The product comes in a high-density polyethylene bottle.

IMPORTANT: when you receive the product make sure that the cap is intact.

Preparing objects

For maximum performance the objects to be treated should be cleaned beforehand using ultrasound wash treatments and special cleaning agents, then subjected to electrolytic degreasing treatment. For best results use of the SGR1 (see technical sheet) electrolytic degreaser is recommended.

Temperature

RU2PN gives excellent performance at room temperature.

Equipment

RU2PN should be applied by pen, using a galvanic pen plater. If used with a Legor galvanic pen plater (see technical sheet), do not forget to set the selector switch on at 10 V.

Galvanic Bath Maintenance

RU2PN can be used until exhausted. If the black intensity starts to decrease during time and use it is possible to add the related blackening agent to restore the original black shade.

Safety Information

Caution: *Ultrablack Ruthenium RU2PN* is corrosive to the skin, eyes and mucous membranes. Caution should be exercised when using the product, avoiding contact with the eyes and skin. Use gloves and safety goggles. For further information please refer to the relative safety sheet.

<i>Ultrablack Ruthenium solutions for pen plating</i>	Code
"Ultrablack Ruthenium™", solution for pen plating (2 g/100ml package)	RU2PN