

Precious Metal Electrolytes

Plating solutions for
jewelry applications





The Group

For over 40 years, we have been transforming **metals into alloys, powders and plating solutions of excellence** for the manufacture of **jewellery and fashion accessories**, guaranteeing our customers reliability, safety and high performance.



ISO
9001



ISO
14001



ISO
45001



ISO
14021



ISO
14064-1



Responsible sourcing

All the **precious metals** used in Legor Group S.p.A. (Gold, Platinum, Palladium, Rhodium and Silver) are **100% recycled** and come entirely from a controlled supply chain certified in its Chain of Custody by the Responsible Jewellery Council. In addition, Legor is now able to guarantee that certain **non-precious metals** (Silicon, Tin, Indium, Cobalt, Gallium, Germanium and Copper) come **100% from recycled sources** for products pertaining to the UNI EN ISO 14021:2021 certification obtained in October 2022.



RESPONSIBLE
JEWELLERY
COUNCIL

CERTIFIED MEMBER
0000 4831

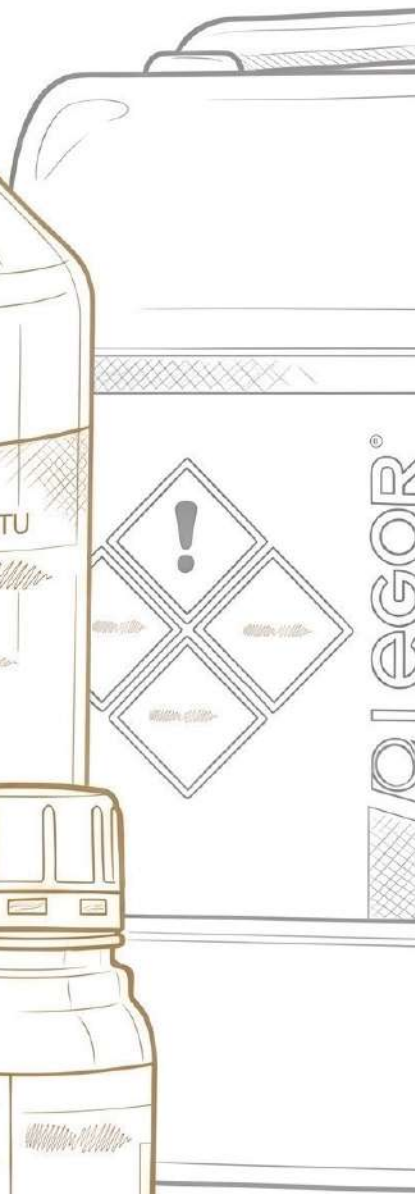


CHAIN
OF
CUSTODY

CERTIFIED NUMBER
C0000 5299



*Only selected non-precious metals contained in UNI EN ISO 14021:2021 certified products





plating

CERAMIX-C

LEGOR[®]
plating

PALLADIUM
PD3-ECO

LEGOR[®]
plating

PTPURE
PTPURE2



**Decorati
ve Gold**

Decorative Gold

Decorative gold plating, in thin and responsible layers

Gold flash plating is ideal for creating decorative finishes with a **precious, bright and uniform appearance** across a wide range of color tones.

Legor's GF Series has been developed for jewelry applications requiring **thin, shiny and brilliant gold deposits**, with a maximum thickness of up to 0.2 micron. Completely **free from Nickel, Lead and Cadmium**.



Decorative layers up to 0.2 micron



Good color repeatability



Low gold content



Nickel, lead, and cadmium free



Alkaline solution

Products



GF1N

ready to use flash plating
bath 0.8g/l gold 1n color

L*	88.2	Concentration	0.8 g Au/l
a*	0.8	Thickness	0.02 - 0.20
b*	28.2	Packaging	1 L



GF2N

ready to use flash plating
bath 0.8g/l gold 2n color

L*	88.7	Concentration	0.8 g Au/l
a*	2.1	Thickness	0.02 - 0.20
b*	29.9	Packaging	1 L



GF3N

ready to use flash plating
bath 0.8g/l gold 3n color

L*	87.8	Concentration	0.8 g Au/l
a*	4.1	Thickness	0.02 - 0.20
b*	26.4	Packaging	1 L



GF4N

ready to use flash plating
bath 0.8g/l gold 4n color

L*	87.4	Concentration	0.8 g Au/l
a*	5.4	Thickness	0.02 - 0.20
b*	24.6	Packaging	1 L



GF5N

ready to use flash plating
bath 0.8g/l gold 5n color

L*	85.6	Concentration	0.8 g Au/l
a*	8.7	Thickness	0.02 - 0.20
b*	18.3	Packaging	1 L



GFPINK

ready to use flash plating
bath 0.6g/l pink gold color

L*	86.0	Concentration	0.6 g Au/l
a*	10.0	Thickness	0.02 - 0.20
b*	14.0	Packaging	1 L



GF24

ready to use flash plating
bath 0.8g/l pure gold color

L*	89.6	Concentration	0.8 g Au/l
a*	6.1	Thickness	0.02 - 0.20
b*	38.5	Packaging	1 L



GF24CF

ready to use flash plating
bath without cyanide 1g/l
pure gold color

L*	88.5	Concentration	1 g Au/l
a*	6.3	Thickness	0.02 - 0.20
b*	34.8	Packaging	1 L



Hard
Gold

Hard Gold

Thickness gold plating, from yellow to pink, for lasting brilliance

Legor's GT Series includes electroplating solutions for thick gold deposits, developed to give jewellery a **glossy, brilliant and precious finish**.

The colour range is inspired by gold alloys of different karats, spanning from yellow to rose tones. These processes produce thicker gold deposits than flash plating while ensuring **colour uniformity, brilliance and high-quality surfaces**.



Greater thickness than flash gilding



Shades from yellow to pink, inspired by gold karats



Gold from 100% recycled sources



Guaranteed color uniformity and brightness

Products



GT4A

ready to use thick plating
bath 4g/l pure gold color

L*	82.0	Concentration	4 g Au/l
a*	8.1	Thickness	0.02 - 3
b*	33.6	Packaging	1 L



GT4A1N

ready to use thick plating
bath 4g/l 1n gold color

L*	83.0	Concentration	4 g Au/l
a*	3.5	Thickness	0.02 - 3
b*	26.0	Packaging	1 L



GT4A2N

ready to use thick plating
bath 4g/l gold 2n color

L*	84.0	Concentration	4 g Au/l
a*	2.5	Thickness	0.02 - 3
b*	27.6	Packaging	1 L



GT4A3N

ready to use thick plating
bath 4g/l gold 3n color

L*	83.2	Concentration	4 g Au/l
a*	6.1	Thickness	0.02 - 3
b*	28.6	Packaging	1 L



GT4PINK

ready to use thick plating
bath 4g/l gold pink color

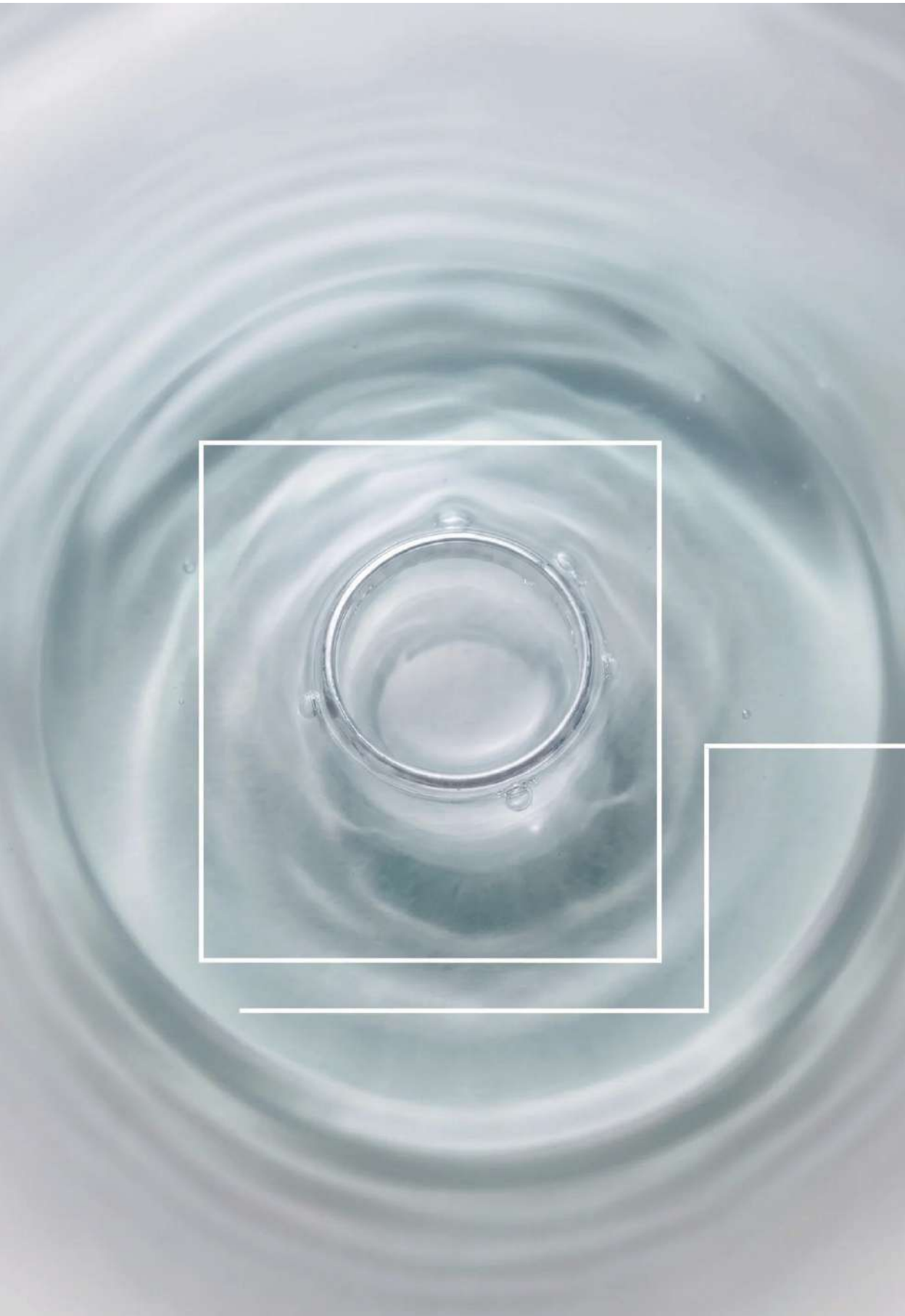
L*	83.9	Concentration	4 g Au/l
a*	9.6	Thickness	0.02 - 3
b*	14.7	Packaging	1 L



SOLARIS

ready to use 18kt thick
plating bath 1.5 g/l pale
yellow

L*	90.0	Concentration	
a*	2.5	Thickness	0.02 – 3.0
b*	21	Packaging	



Rhodium

Rhodium

Bright white, maximum reflectivity:
Legor rhodium for jewelry

Legor's traditional rhodium-based processes are designed to deliver **bright, white and highly reflective finishes** for jewelry and fashion accessories. Made with rhodium from 100% recycled sources, they combine excellent aesthetic performance with a more responsible approach to precious metal sourcing.

From standard decorative applications to more specific production needs, solutions such as RH2FW provide **excellent brightness, elegant white tones and reliable process performance**.



Maximum process flexibility



Superior quality and uniform white color (L > 90)



Excellent distribution of the deposit in any technical scenario



Anti-burn technology



Suitable also for barrel applications

Products



RH2FW

rhodium concentrate
plating bath 2g/100ml white
color

L*	88.6	Concentration	2 g Rh/100 ml
a*	0.6	Thickness	0,02 - 0,20
b*	2.1	Packaging	100 ml



RH2FXL

rhodium concentrate
plating bath 2g/250ml extra
white color

L*	90.9	Concentration	2 g Rh/250 ml
a*	0.8	Thickness	0.02 - 0.50
b*	1.5	Packaging	250 ml



RH2FM

rhodium concentrate
plating bath 2g/250ml white
color

L*	90.5	Concentration	2 g Rh/250 ml
a*	0.8	Thickness	0.02 - 0.50
b*	1.4	Packaging	250 ml



Rhodium Alternati ves

Rhodium Alternatives and Alloys

Beyond rhodium: alternatives and alloys for every finishing need

Alongside traditional rhodium-based processes, Legor offers a selection of **innovative alternatives** designed to meet different requirements in terms of finish, brightness, resistance and color performance.

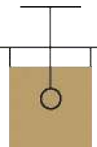
A complete range that combines metallurgical know-how, applied research and a strong focus on performance, providing manufacturers with versatile solutions to enhance every creation.



Rhodiens — The new rhodium- and platinum-based process developed for jewelry and watches



PTLUX — The rhodium-effect electroplating process based on platinum and ruthenium



RHLUX — The rhodium- and ruthenium-based electroplating process



PLATCORE — Light-colored ruthenium/platinum alloy electroplating process

Products



RHODIENS

pt-rh concentrate plating solution 1g/250ml white color

L*	89.3		1 g of total metal/250 ml
a*	0.5	Concentration	
b*	3.2		
		Thickness	Flash
		Packaging	250 ml



PTLUX

ready to use plating solution 2g/l pt + 1g/l ru

L*	86.6	Concentration	2 g Pt/l + 1 g Ru/l
a*	0.7		
b*	4.3		
		Thickness	20 according with the deposited alloy composition
		Packaging	1 L



RHLUX

ready to use plating bath 1.6g/l rh + 0.4g/l ru

L*		1.6 g Rh/l + 0.4 g Ru/l
a*	Concentration	
b*		
	Thickness	0.02 - 0.20
	Packaging	1 L



PLATCORE

ready to use plating bath 5g/l ru+ 0.7g/l pt

L*	82.0	Thickness	0 – 0.2
a*	0.5	Packaging	1 L
b*	3.2		



Palladium
&
Platinum

Platinum and Palladium

Technical and aesthetic reliability in every deposit

In electroplating processes, palladium and platinum are used as functional layers and aesthetic finishes, enhancing adhesion, protection and the surface quality of jewellery.

Legor's range includes flash and thick palladium plating processes, as well as platinum plating solutions that provide a bright, refined white finish. **Both palladium and platinum are sourced entirely from recycled sources, offering versatile solutions for different technical, aesthetic and production requirements.**



Functional layers and aesthetic finishes



Bright, uniform white colour



100% recycled platinum and palladium



High resistance to oxidation and corrosion

Palladium Solutions



PD2

palladium ready to use flash
plating bath 2g/l pure
palladium color

L*	83.8	Concentration	2 g Pd/l
a*	0.4	Thickness	0.02 - 0.20
b*	4.3	Packaging	1 L

PDSTARK-102

ammonia free palladium
flash ready-to-use 2 g/l

L*	84.4	Concentration	2 g Pd/L
a*	0.4	Thickness	0.02 - 0.20
b*	4.3	Packaging	1 L

PDSTARK-104

ammonia free palladium
thickness ready-to-use 4 g/l

L*	83.8	Concentration	4 g Pd/L
a*	0.4	Thickness	0.2 - 3
b*	4.3	Packaging	1 L

Platinum Solutions



PTPURE2

platinum ready to use
plating bath 2g/l pure
platinum color

L*	87	Thickness	0 - 1.5
a*	0.5		
b*	4.0		



Silver

Silver

Bright, reliable silver plating,
responsibly sourced

Legor's silver plating solutions are designed to give jewelry and fashion accessories a bright, elegant and uniform finish.

Developed for decorative electroplating applications, they allow manufacturers to obtain **high-quality silver deposits** with **excellent brightness** and **refined surface appearance**.



Bright, elegant and
uniform finish



Silver from 100%
recycled sources



High surface quality
and color consistency

Traditional cyanide process



AGEF36

cyanide based bright silver
plating bath 36g/l

L*	98.6	Concentration	36 g/l (Ag)
a*	-0.1	Thickness	1 - 500
b*	2.0	Packaging	1L

Cyanide free process



AGELESS

ready to use cyanide free
silver plating solution 25g/l

L*	Concentration	25 g/l Ag
a*	Thickness	0,02-20
b*		



Colored Precious Finishing

Colored Precious Finishing

Custom color, in every precious shade

Legor's coloured precious metal solutions are developed to create bright, uniform and refined finishes in a broad range of shades, **from brown to green**.

Designed for decorative electroplating applications, the range includes **both flash and thick plating processes** within the GF Series and GT Series, offering different solutions based on the desired aesthetic effect and final deposit thickness.



Wide range of color tones



Flash (GF Series) and thickness (GT Series) processes



Precious metals from 100% recycled sources

Products



GTBROWN

ready to use thick plating
bath 1,5g/l brown gold color

L*	77.1	Concentration	1.5 g Au/l
a*	8.1	Thickness	0.02 - 1
b*	22.3	Packaging	1 L



GFBROWN-K

ready to use gold flash
plating bath brown color

L*	77.1	Concentration	0.35 g Au/l
a*	8.1	Thickness	0.02 - 0.20
b*	22.3	Packaging	1 L



GFGREEN

ready to use green gold
flash plating solution
without cadmium 1g/l

L*	85.0	Concentration	1 g Au/l
a*	10.1	Thickness	0.02 - 0.20
b*	14.7	Packaging	1 L



**Black
Precious
Finishing**

Black Precious Finishing

Precious black: bold character,
sophisticated finish

Legor's **black precious finishing solutions** are developed to create intense, elegant and distinctive dark finishes **for jewelry and fashion accessories**.

Designed for decorative electroplating applications, the range includes **rhodium-** and **ruthenium-based** processes that make it possible to achieve refined black tones, from deep and brilliant finishes to more technical and resistant surface effects.



Refined black tones,
from deep to technical



Rhodium- and
ruthenium-based



Precious metals from
100% recycled sources

Rhodium



RH2FB

rhodium concentrate
plating bath 2g/100ml black
color

L*	57.9	Concentration	2 g Rh/100 ml
a*	0.4	Thickness	0.02 - 0.20
b*	1.3	Packaging	100 ml

Ruthenium



RU5BLACK

ruthenium ready to use
plating bath 5g/l black-rifle
barrel color

L*	55.0	Concentration	5 g Ru/l
a*	0.4	Thickness	0.02 - 0.20
b*	2.0	Packaging	1 L



RU5BLACK-X

ruthenium ready to use
plating bath 5g/l extra-black
color

L*	42.0	Concentration	5 g Ru/l
a*	0.5	Thickness	0.02 - 0.10
b*	2.2	Packaging	1 L

Hybrid



DARKBOND

ready to use plating solution
gunmetal black color for
intermediate layers

L*	82.0	Thickness	0 – 0.2
a*	0.5	Packaging	1 L
b*	3.2		



Pink
**Precious
Finishing**

Pink Precious Finishing

Pink gold: warmth and elegance in every tone

Legor's **pink gold finishing solutions** are developed to create **warm, elegant and refined rose-colored finishes** for jewelry and fashion accessories.

Designed for decorative electroplating applications, the range includes both flash and thickness processes, offering different options according to the desired color tone, final deposit thickness and application requirements.



Flash and thickness processes



Warm, elegant tones, from delicate to bold



Precious metals from 100% recycled sources

Flash Process



GFRED

ready to use flash plating
bath 0.8g/l red gold color

L*	85.4	Concentration	0.8 g Au/l
a*	10.4	Thickness	0.02 - 0.20
b*	17.0	Packaging	1 L



GFRED-ECO

ready to use cyanide free
flash plating bath 1g/l red
gold color

L*	85.3	Concentration	1 g Au/l
a*	10.5	Thickness	0.02 - 0.20
b*	14.8	Packaging	1 L



GFPINK

ready to use flash plating
bath 0.6g/l pink gold color

L*	86.0	Concentration	0.6 g Au/l
a*	10.0	Thickness	0.02 - 0.20
b*	14.0	Packaging	1 L

Thicknesses Process



GT4PINK

ready to use thick plating
bath 4g/l gold pink color

L*	83.9	Concentration	4 g Au/l
a*	9.6	Thickness	0.02 - 3
b*	14.7	Packaging	1 L



Decorative Base Metals

Decorative Base Metals

The base that makes the difference: preparation and finish in one cycle

Legor's decorative base metal solutions are developed to **support the preparation and finishing stages of electroplating cycles for jewelry and fashion accessories**. The range includes copper-, nickel-, tin- and bronze-based processes designed to create bright, uniform and wear-resistant intermediate layers, helping to **improve surface quality and prepare the substrate** for subsequent decorative or precious metal finishes.

From alkaline and acid copper processes to bright nickel deposits, these solutions provide excellent coverage, leveling and brightness, contributing to a smooth and homogeneous surface. They represent a key step in ensuring consistent plating results, enhancing both the aesthetic appearance and the overall quality of the final finish.



Copper, nickel, tin and bronze processes



Bright, wear-resistant intermediate layers



Excellent coverage, leveling and brightness

Bright Nickle

3004060

glossy nickel ready to use plating bath

Alkaline Copper

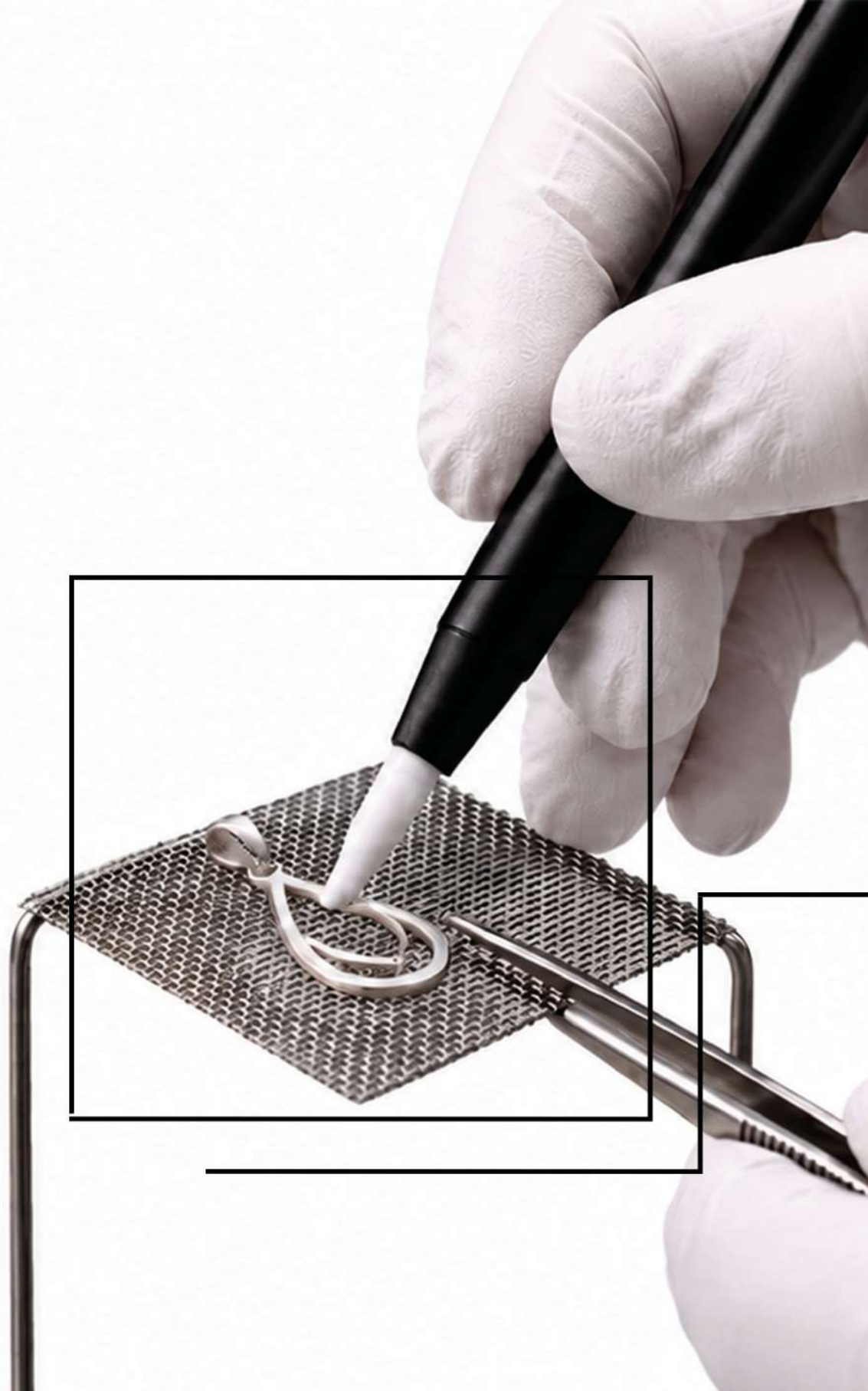
ECOLUXPAVE

cyanide free ready to use alkaline
copper plating solution for pave'
system

Bright Acid Copper

DECOP-RTU

acidic copper ready to use plating
solution



**Pen
Plating**

Pen Plating

Millimeter precision: Legor stylus plating

Legor's stylus plating solutions are designed for **selective electroplating applications** on jewelry and fashion accessories, allowing precise decoration, localized finishing and small surface repairs without the need to treat the entire piece.

The range includes precious metal-based solutions formulated to ensure controlled deposition, color consistency and reliable results even on small or complex areas. This technology is ideal for adding decorative details, enhancing specific surface zones or restoring worn finishes with accuracy and efficiency.



Selective application,
no need to treat the
whole piece



For use with StylusPRO



Precious metals from
100% recycled sources
(where used)

Gold pen



GY2P

ready to use gold pen
plating solution 2g/100ml
pure gold color

L*	82.2	Concentration	2 g Au/100 ml
a*	3.9	Thickness	0,05 - 0,1
b*	30.4	Packaging	100 ml



GP1-2N

ready to use gold pen
plating solution 1g/100ml
gold 2n color

L*	88.7	Concentration	1 g Au/100 ml
a*	2.1	Thickness	0,05 - 0,1
b*	30.0	Packaging	100 ml



GP03P

ready to use gold pen
plating solution 0.4g/100ml
pink gold color

L*	83.7	Thickness	0,1 - 0,3
a*	12.3	Packaging	100 ml
b*	13.7		

Rhodium pen



RH2PM

ready to use rhodium pen
plating solution 2g/100ml
white color

L*	86.1	Concentration	2 g Rh/100 ml
a*	0.6	Thickness	0,05 - 0,10
b*	2.4	Packaging	100 ml



RH2PB

ready to use rhodium pen
plating solution 2g/100ml
black color

L*	59.6	Concentration	2 g Rh/100 ml
a*	-0.4	Thickness	0.02 - 0.10
b*	2.2	Packaging	100 ml

Palladium pen



PDSTARK-PEN

ready to use palladium pen
plating solution 30g/l

L*	84.7	Concentration	3 g Pd/100ml
a*	0.7	Thickness	0.02 - 0.20
b*	4.3	Packaging	100 ml



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