

PEN PLATING

Brush Plating Electrolytes for Targeted and Partial Coating



We offer various electrolytes which enable targeted, partial coating with a pen plating unit. This is mainly needed for multicolor coatings, repair work and coatings of small areas.



This is applicable mainly for jewelry, watches, spectacle frames, writing implements, household articles and cutlery.



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Metal Deposition Solutions

Overview of Brush Plating Electrolytes



Electrolyte	Metal content in the deposit (wt.%)	Alloy components	Color of deposit	max. coating thickness	metal content / package size	pH-value	Voltage	Plating speed	Temperature	Additional information
AURUNA® 250	99.5 Au	Co	yellow, approx. 3 N	0.1 µm	20 g Au / 1 l	0,6	10 V (8 - 15 V)	approx. 0.07 µm/min	20 - 30 °C	for the direct goldplating of stainless steel
AURUNA® 261	99 Au	different	pale light yellow, approx. 1 N	0.1 µm	2 g Au / 100 ml	7,0	10 V (8 - 15 V)	approx. 0.1 µm/min	20 - 30 °C	
AURUNA® 262	99 Au	different	neutral yellow approx. 2 - 3 N	0.1 µm	2 g Au / 100 ml	3,0	10 V (8 - 15 V)	approx. 0.1 µm/min	20 - 30 °C	
AURUNA® 263	99.5 Au	different	rich deep yellow, fine gold color	0.1 µm	2 g Au / 100 ml	7,0	10 V (8 - 15 V)	approx. 0.1 µm/min	20 - 30 °C	
AURUNA® 264	90 Au	Cu	rosé, approx. 4 - 5 N	0.1 µm	2 g Au / 100 ml	9,0	6 V (2 - 8 V)	ca. 0.1 µm/min	20 - 30 °C	
RHODUNA® 271	99.9 Rh	-	white	up to 1 µm	2 g Rh / 100 ml	< 1	8 - 10 V (max. 12 V)	up to 0.2 µm/min	20 - 40 °C	
RHODUNA® 275 Black	approx. 95 Rh	-	anthracite-black	0.2 µm	2 g Rh / 100 ml	< 1	8 - 10 V (max. 12 V)	up to 0.1 µm/min	20 - 40 °C	
RHODUNA® PT PEN	approx. 40 Rh, approx. 60 Pt	-	white	up to 0.25 µm	0,8 g Rh, 1,2 g Pt / 100 ml	< 1	14 V (13 - 15 V)	up to 0.1 µm/min	20 - 40 °C	cost saving version to pure rhodium
RUTHUNA® 279 Black	> 95 Ru	-	anthracite-black	up to 0.08 µm	2 g Ru / 100 ml	< 1	10 V (8 - 12 V)	up to 0.01 µm/min	20 - 40 °C	cost saving version to RHODUNA® 275 Black

Passion for Perfect Surfaces

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