



Metal deposition



Rhodega[®] pure K3

Brilliant white deposits of high purity

The pure rhodium process Rhodega[®] pure K3 is an acidic electrolyte from which brilliant white deposits can be deposited. The layers of Rhodega[®] pure K3 have a hardness of 800 - 900 HV₂₀ and a purity of 99,99 %.

A typical field of application is for plating on jewellery, optical frames, watches, medical laboratory equipment, and electric contacts.



Properties and Benefits

- Very white layers
- High hardness
- $L^* = 91, a = +0,5, b = +3$

Application area

- Jewellery
- Optical frames
- Watches
- Medical laboratory equipment
- Electric contacts

Rhodega pure K3_E

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Technical Data

Electrolyte properties		
Parameter	Range	Optimum
Rhodium	1,0 – 4,0 g/l	2,0 g/l
Sulfuric acid	35 – 50 g/l	35 g/l
Temperature	20 – 50 °C*	35 °C
Current density	1 – 5 A/dm ²	1,5 A/dm ² Minimum**
Anodes	Pt/Ti-Anodes	
Anode/cathode-ratio	2:1 bis 8:1	4:1
Agitation	moderate	
Current efficiency	3-8 mg/Amin at 2 g/l Rh, 1A/dm ² and 35°C	

* Dependent on Rhodium concentration:

Low Rhodium = High Temperature
 High Rhodium = Low Temperature
 eg. 1,0 g/l Rh = 50 - 60°C and
 2,0 g/l Rh = 35°C

** Higher current densities yield whiter deposits, 5 A/dm² may be used where possible for maximum whiteness

Deposit characteristics

Appearance	brilliant white
Hardness	800 – 900 HV ₂₀
Purity	99,99%
Specific gravity of the deposit	12 g/cm ³

Products available

3505700.....	Rhodega® pure K3, 2 g Rh/100 ml
3505701.....	Rhodega® pure K3, 1 g Rh/50 ml
3505705.....	Rhodega® pure K3 R, 5 g Rh/100 ml

FOR ANY FURTHER INFORMATION WE WILL BE PLEASED TO BE AT YOUR DISPOSAL PERSONALLY UNDER +43 (0)2287 71073 OR OFFICE@IWGPLATING.COM

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