

Metal deposition



# Platega<sup>®</sup> pure K1

## Precious deposits of great whiteness

The acid platinum bath Platega<sup>®</sup> pure K1 deposits smooth, bright platinum layers of white colour up to 1 µm thickness. The hardness of the layer is about 350 - 500 HV<sub>20</sub>.



### Properties and Benefits

- RoHS compliant
- REACH compliant
- White layers
- Cheaper than pure rhodium
- $L^* = 86,5$ ,  $a = +1$ ,  $b = +5,5$

### Application area

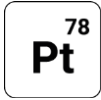
- Writing instruments
- Jewellery
- Watches

Platega pure K1\_E

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## Technical Data

| Electrolyte properties                                      |  |                       |
|---|--|-----------------------|
| Parameter   | Range  | Optimum               |
| Platinum  | 1,5 – 3 g/l  | 2,0 g/l               |
| Sulfuric acid   | 80 – 100 g/l   | 90 g/l                |
| Temperature   | 40 – 60°C  | 40°C                  |
| Current density   | 0,5 – 1,5 A/dm <sup>2</sup>                            | 1,0 A/dm <sup>2</sup> |
| Anodes  | Pt/Ti-Anodes   |                       |
| Anode/Kathode-ratio   | 4:1  |                       |
| Agitation   | necessary, 4-8 cm/sec                                  |                       |
| Current efficiency  | 10-15 mg/Amin at 2 g/l Pt, 1A/dm <sup>2</sup> and 40°C |                       |
| Rate of deposition at 2 g/l Pt, 1A/dm <sup>2</sup> and 40°C | approx. 0,07 µm/min                                    |                       |

## Deposit characteristics

|                                       |                            |
|---------------------------------------|----------------------------|
| Appearance .....                      | silvery white              |
| Hardness .....                        | 350 – 500 HV <sub>20</sub> |
| Purity .....                          | 99,9+                      |
| Specific gravity of the deposit ..... | 21,4 g/cm <sup>3</sup>     |

## Products available

|               |                  |
|---------------|------------------|
| 3555600 ..... | Platega® pure K1 |
|---------------|------------------|

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

