



Metal deposits



# Rhodega<sup>®</sup> pure XP

## Extra white pure rhodium deposits

Rhodega<sup>®</sup> pure XP process is an acidic electrolyte from which brilliant white deposits can be deposited. The layers of Rhodega<sup>®</sup> pure XP have a hardness of 800 – 900 HV<sub>20</sub> and a purity of 99,99 %.

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



### Properties and benefits

- Very white
- Bright deposits
- High hardness
- 99,99% pure
- $L^* = 91, a = +0,5, b = +3$

### Application area

- Jewellery
- Laboratory equipment
- Medical equipment
- Contacts

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## Technical Data

### Electrolyte parameters

Parameter	Range	Optimum
Rhodium	1,0 – 4,0 g/l	2,0 g/l
Sulphuric acid	35 – 50 g/l	35 g/l
Temperature	20 – 50°C	35°C
Current density	1 – 5 A/dm <sup>2</sup>	1,5 A/dm <sup>2</sup> minimum**
Anode:Cathode-Ratio	2:1 bis 8:1	4:1
Agitation	Slow	
Current efficiency at 1 A/dm <sup>2</sup>	3 – 8 mg/Amin	

### Deposit characteristics

Purity .....	99,99%
Specific gravity of the deposit .....	12,5 g/cm <sup>3</sup>
Hardness .....	800 – 900 Hv <sub>20</sub>

\* dependent on rhodium concentration: little rhodium in bath = high temperature  
 Much rhodium in the bath = low temperature  
 For example: 1,0 g/l Rh = 50 – 60 °C and  
 2,0 g/l Rh = 25 °C

\*\* higher current densities lead to whiter deposits, 5 A/cm<sup>2</sup> should be use where possible to reach maximum whiteness.

## Products available

3507000 .....	Rhodega® pure XP, 2 g Rh/100 ml
3507001 .....	Rhodega® pure XP, 1 g Rh/50 ml
3507004 .....	Rhodega® pure XP E, 4 g Rh/100 ml
3507005 .....	Rhodega® pure XP 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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