

Please work safely and in accordance with all safety regulations:



corrosive



don't touch



use safety goggles



use gloves



take care

The information and statements contained herein are provided free of charge. They are believed to be accurate at the time of publication, but Umicore makes no warranty with respect thereto, including but not limited to any results to be obtained or the infringement of any proprietary rights.

Use or application of such information or statements is at the user's sole discretion, without any liability on the part of Umicore. Nothing herein shall be construed as a license of or recommendation for use which infringes upon any proprietary rights. All sales are subject to our General Conditions of Sale and Delivery.

Fields of Application:

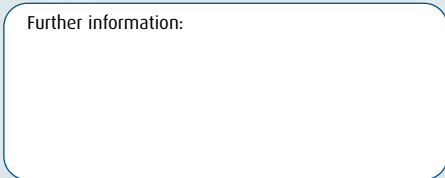
- rhodium plating of jewellery, watches, spectacle frames and other decorative articles
- also for technical applications like reed-switches

Special Features:

- brilliant white coatings
- max. thickness 0.3 μm - 0.5 μm
- easy to operate
- excellent wear resistance
- available for rack, barrel and pencil plating
- electrolytes for decorative and technical applications

Umicore Galvanotechnik GmbH
 P.O. Box 12 40
 73502 Schwaebisch Gmuend
 Germany
 Phone: +49 7171 607-01
 Fax: +49 7171 607-316
 galvano@eu.umicore.com
 www.umicore-galvano.com

Further information:



Brilliance has a name: RHODUNA®



Beautiful crafted jewellery deserves the best in plating:

- Use a very rare and unique precious metal
- Create an unparalleled brilliant white finish
- Let diamonds truly look large and magnificent
- Benefit from the extreme high hardness of rhodium
- Create jewellery which stand up - for years to come



RHODUNA® plating made easy



Ultrasonic degreasing
(essential for polished parts)
e.g. Umicore Cleaner 6030
(3-5 g/l)



Cathodic degreasing
(essential for all parts)
e.g. Umicore Cleaner 6030 according to operating instructions



Rinsing
deionized water



Acid dip
5% H₂SO₄ solution, room temperature, 20-30 seconds



Rhodium plating
Umicore RHODUNA® electrolytes according to operating instructions



Rinsing and drying
deionized water

Equipment for rhodium plating:

- ultrasonic tank (stainless steel tank, heatable)
- degreasing tank (chemical resistant)
- two rectifiers (10 V / 10 A)
- two rinsing tanks
- acid tank (chemical resistant)
- rhodium tank with Pt/Ti-anodes (acid resistant)

Available electrolytes:

- | | |
|----------------------|--|
| RHODUNA® J1 | for ultra bright white coatings, rack and barrel plating |
| RHODUNA® TD | for ultra bright white coatings, very high covering speed and throwing power |
| RHODUNA® SL-C | for ultra bright white coatings, 50 ml bottles with 1g Rh-content |

- | | |
|--------------------|--|
| RHODUNA® DX | for brilliant white coatings, developed for chains and complex shaped articles |
| RHODUNA® T | for technical applications |