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# AURUNA® 568 EF-18

## GOLD-SILVER ELECTROLYTE FOR ELECTROFORMING



### For More Than 30 Years Used Worldwide for Hollow Jewellery

The gold-silver electrolyte AURUNA® 568 EF-18 stands for decades of Umicore experience in electroforming with mandrels made of wax and metal.

For more than 30 years hollow jewellery has been produced worldwide with AURUNA® 568 EF-18. Among others, renown manufacturers produce creole earrings, pendants, brooches, chains, chain clasps and bangles, but also statues and watch parts with AURUNA® 568 EF-18.

The electrolyte convinces with layer thicknesses of 150 to 200 micrometer, a fine gold content of 18 ct and is easy to maintain. The weight distribution can be monitored within narrow limits very closely.



### Advantages

- Gold-silver electrolyte for electroforming
- Suitable for cores made of wax and metal
- Layer thicknesses of 150 to 200 micrometer
- Observance of fineness and weight distribution within narrow limits
- High hardness of about 220 HV

### Applications

- Electroforming
- Hollow jewellery

# AURUNA<sup>®</sup> 568 EF-18

## GOLD-SILVER ELECTROLYTE FOR ELECTROFORMING

### TECHNICAL SPECIFICATIONS

Electrolyte characteristics		Coating characteristics	
Electrolyte type	Alkaline-cyanide	Coating	Gold-silver
Metal content	15 g/l Au 3 g/l Ag	Alloy composition	77 wt. % Au 23 wt. % Ag
pH value	10.0 - 10.2 (at 45 °C)	Caratage	Approx. 18.5 carats
Operating temperature	45 °C	Colour of deposit	Pale yellow
Current density range	0.6 - 2.0 A/dm <sup>2</sup>	Brightness	Semi-bright
Plating speed	Approx. 60 µm/h at 1.5 A/dm <sup>2</sup>	Hardness of deposit HV 0.015 (Vickers) approx. values	220 HV
Anode material	Pt-Ti (Typ PLATINODE <sup>®</sup> Pt/Ti)	Max. coating thickness	Several 100 µm
		Density of the coating	Approx. 15.8 g/cm <sup>3</sup>

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