

BLACK RUTHENIUM BATH

PROD-ID: NC500



NC500 Black is the perfect final finish for dark-to-black surfaces for decorative applications. The black ruthenium electrolyte is strongly acidic and has a long lifetime. It is easy to operate and primarily used for rack plating.

When plating non-precious metals it is recommended to use a pre-gold layer or a pre-palladium layer. NC500 Black is suitable for many decorative applications, for instance in the jewelry, bathroom fittings, spectacle frame, and writing utensils industries.

Ruthenium content: 5g/250 ml

BLACK RUTHENIUM BATH

PROD-ID: NC500

Advantages

- For perfect decorative dark to black final finishes
- Degree of blackening adjustable
- Good color constancy
- Strongly acidic electrolyte with a long lifetime
- Simple bath maintenance
- Good to very good abrasion resistance
- Suitable for rack and barrel

Applications

- Bathroom fittings
- Spectacle frames
- Jewellery & watches
- Writing implements
- Car interiors

Technical Specifications

Electrolyte Characteristics

Electrolyte type: Strongly acidic

Metal content: 5 (2 -10) g/L Ru

PH value: 1.2 (0.8 - 1.3)

Operating temperature: 65 (60 - 70) °C

Current density range: 1.5 A/dm²

Plating speed: 0.12 µm/min

Anode material: MMO (RuO₂-TiO₂) or Pt-Ti

Coating Characteristics

Coating: Black Ruthenium

Alloy composition: 99.9 wt. % Ru

Color of deposit: Gray to anthracite (black)

Brightness: Bright

