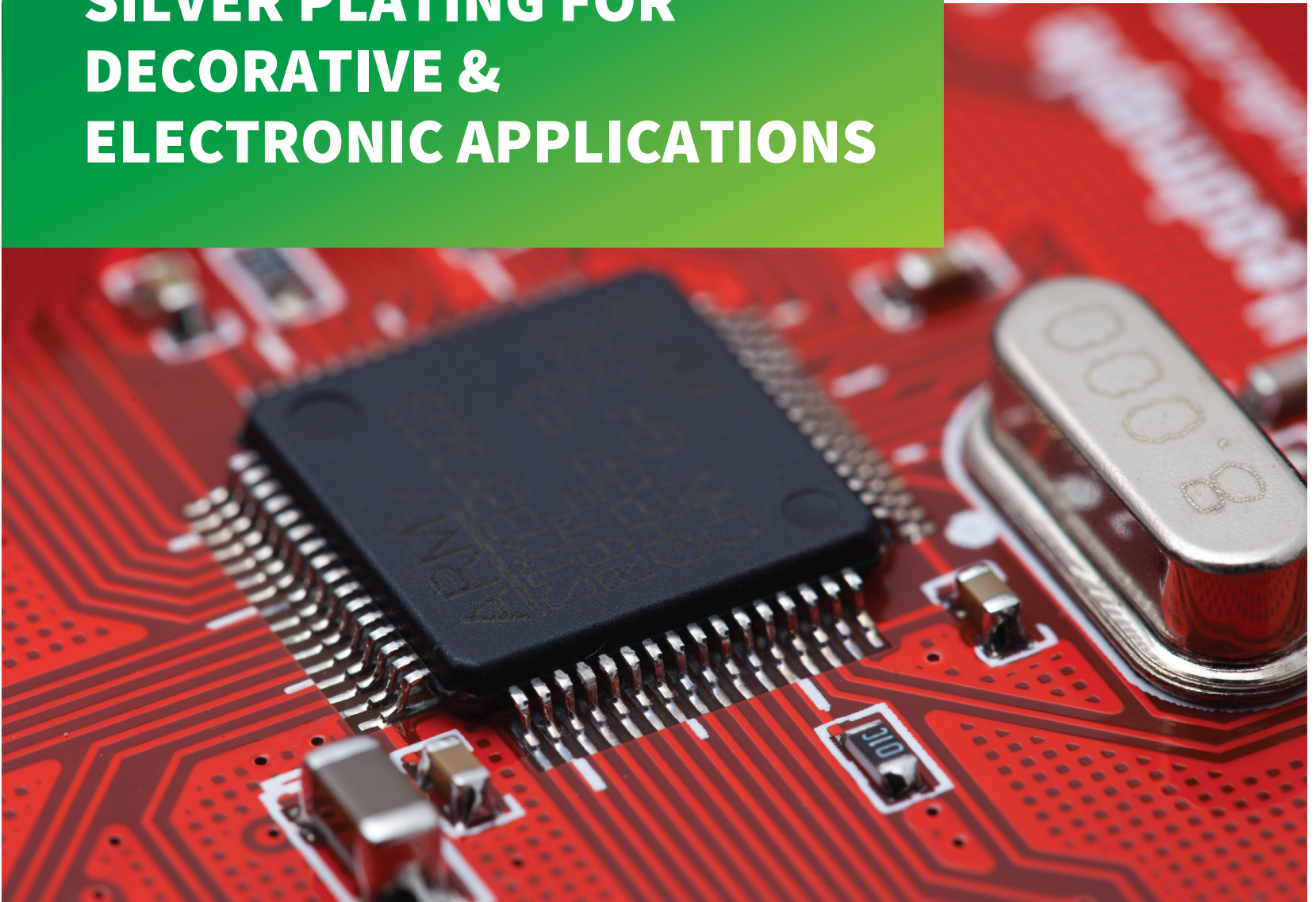




SINCE 1957

NEXT-GEN NON-CYANIDE SILVER PLATING FOR DECORATIVE & ELECTRONIC APPLICATIONS



As India's undisputed leader in metal finishing & surface treatment solutions, Growel provides comprehensive plating solutions tailored to meet a wide range of surface finishing applications. Growel's upgraded, organic-complex based and highly stable, non-cyanide silver products are a testament to our commitment to the environment. Our next-gen cyanide-free processes deliver gleaming and functional finishes and find application in the electrical, electronic, and decorative segments. Our non-cyanide silver solutions conform to ASTM B700, QQ-S-365, AMS 2410 standards.

TRUST THE LEADER IN SURFACE FINISHING

SILVER ON COPPER PROCESS



SILVERGLOW NC 201

- Mildly alkaline silver plating process
- High chemical stability and outstanding deposit quality
- Sulphur-free deposit

Current density: 0.1-1.5 ASD

Twin additive system

Deposition speed: 0.6 $\mu\text{m}/\text{min}$ @ 1.0 ASD

pH: 10.0-11.0

Hardness: 90-120 HVK

Contact resistivity: 1.88 mOhm-cm

Purity: ASTM B700 Grade A & B

SILVERGLOW NC 203 (HARD SILVER)

- Deposit is semi-bright to bright white and levelled
- Excellent wearability & solderability
- Sulphur-free deposit

Current density: Up to 3 ASD

Single additive system for simplified process control

Deposition speed: 1-1.2 $\mu\text{m}/\text{min}$ @ 2.0 ASD

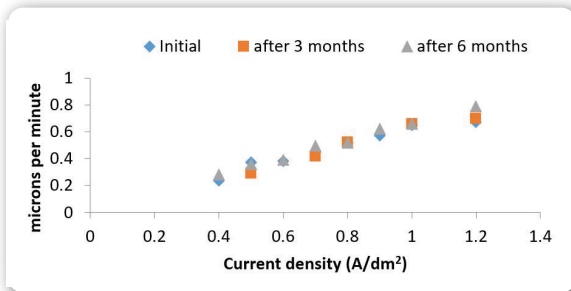
pH: 10.0-11.5

Hardness: 150-200 HVK

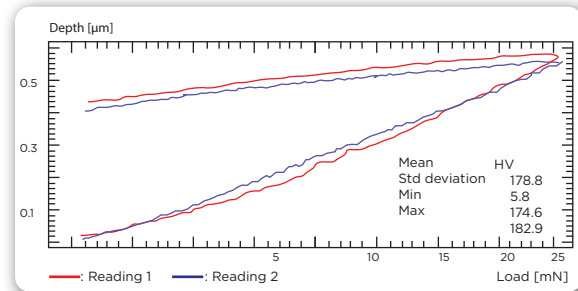
Contact resistivity: 1.88 mOhm-cm

Purity: ASTM B700 Grade B

EVALUATION OF BATH STABILITY OF SILVERGLOW NC 201 PROCESS



DEPOSIT CHARACTERISTICS ~ HARDNESS OF SILVERGLOW NC 203 PROCESS



About Growel

India's trusted leader in metal finishing and surface treatment since 1957

We are pioneers in electroplating, paints, lubricants, surface treatment intermediates, and mission critical equipment. We partner with customers in diverse industries to provide comprehensive solutions backed by in-depth domain knowledge. Our R&D is recognised by the Indian Council of Science & Technology; our plants and processes are IMS certified.



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Chemicals | Engineering | Paints | Lubricants | Real Estate



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GC/N-CVND SILVER/0114/1223/500

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