



SILVERON™ GT-101 Silver Strike
 Cyanide-free Electrolytic Silver Strike Plating
 For Electronic, Decorative and Industrial Finishing Applications

Regional Product Availability

- North America
- Europe, Middle East and Africa
- Latin America
- Asia-Pacific

Description

SILVERON™ GT-101 Silver Strike is an alkaline non-cyanide pure silver strike plate designed for use prior to the SILVERON GT-101 Electrolytic Silver to achieve good adhesion of silver to nickel or nickel alloy substrates.

Bath Make-up for One Liter

Chemical Required	0.5 - 3 ASD
SILVERON™ GT-101 Make Up Solution	300 ml/l
SILVERON GT-101 Silver Concentrate	5.0 ml/l (0.4 g/l Ag)
Deionized Water	Top to 1 liter

Operating Parameters

Parameters	Barrel Plating	Other Plating
Silver concentration	0.3 – 0.5 g/l	0.3 – 0.5 g/l
Temperature	20 – 40 °C	20 – 40°C
Current Density	0.5 A/dm ²	1 - 3 A/dm ²
Plating time	2 - 4 minutes	10 – 60 seconds
Anode	Stainless steel	

Bath Maintenance

SILVERON™ GT-101 Silver Concentrate

The optimum silver concentration should be maintained based on analysis. To raise the silver concentration by 1.0 gram, add 12.5 ml SILVERON GT-101 Silver Concentrate.

SILVERON GT-101 Strike Replenisher

SILVERON GT-101 Strike Replenisher is used to maintain the bath. The consumption rate of SILVERON GT-101 Strike Replenisher is ca. 30 ml per 10 Ah.

Notes

Parameter optimization

The optimum operating parameters vary depending on the plating techniques. For a new installation, it is recommended to optimize the operating parameters, such as current density, plating time and temperature, to achieve the optimum adhesion of silver to nickel.

Anode

It is recommended to use stainless steel insoluble anodes.

Associated Products

SILVERON™ GT-101 Make Up Solution
SILVERON GT-101 Silver Concentrate
SILVERON GT-101 Strike Replenisher

Handling Precautions

Before using this product, or the analytical reagents required for its control, consult the Material Safety Data Sheet (MSDS)/Safety Data Sheet (SDS) for details on material hazards, recommended handling precautions and product storage.

CAUTION! Keep combustible and/or flammable products and their vapors away from heat, sparks, flames and other sources of ignition including static discharge. Processing or operating at temperatures near or above product flashpoint may pose a fire hazard. Use appropriate grounding and bonding techniques to manage static discharge hazards.

CAUTION! Failure to maintain proper volume level when using immersion heaters can expose tank and solution to excessive heat resulting in a possible combustion hazard, particularly when plastic tanks are used.

Storage

Store products in tightly closed original containers at temperatures recommended on the product label.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Electronic Materials Technical Representative for more information.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Electronic Materials Technical Representative for more information.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

For Industrial Use Only. This information is based on our experience and is, to the best of our knowledge, true and accurate. However, since conditions for use and handling of products are beyond our control, we make no guarantee or warranty, expressed or implied, regarding the information, the use, handling, storage or possession of the products, or the applications of any process described herein or the results sought to be obtained. Nothing herein shall be construed as a recommendation to use any product in violation of any patent rights.

Contact:

North America: 1-800-832-6200
Japan: (+81) 3-5213-2910
Asia: (+852) 2680-6888
Europe: (+41) 41-259-44-44
<http://www.dow.com>

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.



UNRESTRICTED – May be shared with anyone
*™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow
SILVERON™ GT-101 Silver Strike / Electronic Materials

886-00034-0112-EN
01/2012, Rev. 0