

# PRODUCT DATA

# Silver-Guard™ Anti-Tarnish Film

## Description



Silver-Guard is a polyethylene anti-tarnish film infused with a proprietary chemical formula designed to protect noble metals from tarnish under oxidation or sulfide vapor attack. Silver-Guard works by removing all sulfide vapors from within a closed environment. The chemicals in Silver-Guard film react with the vapors to eliminate the sulfide, and therefore eliminate the risk of tarnish. Unlike other products, Silver-Guard may be placed in direct contact with silver and other noble metals without risk of staining or discoloration.

Silver-Guard film will not contaminate metal surfaces by leaving particulates or residue. Film will not affect solderability, conductivity or coatings. Packaged metal remains clean and dry, ready to use without further cleaning or rework. Parts are visible through the film, allowing inspection without opening the bag or disrupting the packaging.

## Features



### ***Proven Daubert Cromwell anti-tarnish chemistry***

- For wide range of precious metals such as silver, gold, and platinum.
- Transparent, off-white film allows visibility into the bag.
- Heat-sealable.
- Does not affect solderability, conductivity or coatings.
- Non-toxic, non-corrosive, non-dusting, recyclable.
- Safe and easy to use; no special handling required.
- Protects for a minimum of 2 years.
- Items remain clean, dry and ready to use immediately, without additional cleaning.
- RoHS compliant, OEM approved
- Compatible with Daubert Cromwell VCI papers, foams, and emitters.
- Available in 3 mil rolls and 2 mil bags.

## Typical Applications



### ***Industrial Applications***

- Electronics and components
- Silver-plated and polished fabrications
- Controls, instruments, sensors and accessories

### ***Also:***

- Flatware
- Coins
- Silver serving pieces
- Jewelry

### ***Cost-efficient alternative to anti-tarnish strips and tabs for small part packaging***

*Packaging personnel should always wear gloves while handling metal parts. Parts should be clean and free of fingerprints before wrapping. Package clean products as quickly as possible.*

**DAUBERT  
CROMWELL**

12701 S. Ridgeway Ave | Alsip, IL 60803 USA | (800) 535-3535  
Tel +1 (708) 293-7750 | E-mail: [info@daubertcromwell.com](mailto:info@daubertcromwell.com) | [www.daubertcromwell.com](http://www.daubertcromwell.com)



# TECHNICAL DATA

# Silver-Guard™ Anti-Tarnish Film

## Physical Data

Typical Properties	2 mil		3 mil		Test No.
Film Gauge – mil (µm)	2.0 (50.8)		3.0 (76.2)		ASTM D2103
Tensile Strength – psi (Mpa)	<i>Machine</i>	<i>Cross</i>	<i>Machine</i>	<i>Cross</i>	ASTM D882
	1743 (12.0)	1192 (8.2)	2508 (17.3)	2277 (15.7)	
Tear Strength – gf (N/ply)	<i>Machine</i>	<i>Cross</i>	<i>Machine</i>	<i>Cross</i>	ASTM D1922
	92.4 (0.90)	794 (7.79)	575 (5.64)	697 (6.84)	
Elongation - %	<i>Machine</i>	<i>Cross</i>	<i>Machine</i>	<i>Cross</i>	ASTM D882
	541	658	639	989	
Puncture Resistance (lbs)	1.59		2.47		MIL-STD 3010, Method 2065

### Protection Time

Inside Dry Storage, minimum 2 years

Metal	Level of Protection
Gold	Full Protection
Platinum	Full Protection
Silver, 99%	Full Protection
Silver, Sterling	Full Protection
Copper	Recommend Testing
Solder or Lead	Passive
Tin	Passive
Steel	Passive
Aluminum	Passive
Galvanized Steel	Passive
Nickel	Passive

## Storage

Store in a cool, dry place, away from direct sunlight. Do not store outdoors, in high humidity, or at temperature above 80°F (27°C).

## Shelf Life

2 years from date of shipping when stored in the original shipping container used by Daubert Cromwell and not in high humidity and not at high temperatures 80°F (27°C) or stored outside. Storage outside these conditions voids this statement.

**WARRANTY** The data, statements and recommendations in this product specification sheet are based on testing, research and other development work, which has been carefully conducted by us, and we believe such data, statements and recommendations will serve as reliable guidelines. Physical properties shown above represent typical values and are not intended for use in writing specifications. However, this product is subject to numerous uses under varying conditions over which we have no control, and accordingly, we do NOT warrant that this product is suitable for any particular use. Users are advised to test the product in advance to make certain it is suitable for their particular production conditions and use. All products manufactured by us are warranted to be first class material and free from defects in material and

workmanship. Liability under this warranty is limited to the net purchase price of any such products proven defective or, at our option, to the repair or replacement of said products upon their return to us transportation prepaid. All claims on defective products must be made in writing within 30 days after the receipt of such products in your plant and prior to further processing or combining with other material and products. We make no warranty, express or implied, as to the suitability of any of our products for any particular use, and we shall not be subject to liability from any damages resulting from their use in operations not under our direct control. This warranty is exclusive of all other warranties, express or implied, and no representative of ours or any other person is authorized to assume for us any other liability in connection with the sale of our products.

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12701 S. Ridgeway Ave | Alsip, IL 60803 USA | (800) 535-3535  
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