

# Product Data

# Silver Saver®

## Anti-Tarnish Paper

### Description

Silver Saver anti-tarnish paper is a 40 lb/ream (65 g/m<sup>2</sup>) bleached kraft coated with a proprietary chemical formulation which prevents silver and palladium from tarnishing.

Silver Saver paper protects silver and palladium without leaving residue on the metal surfaces. It will not affect solder, conductivity or surface resistivity. Silver Saver is commonly used in electronics, aerospace, automotive and precision parts manufacturing, in addition to jewelry, musical instruments and antiques.

### Features



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

- Metals protected: Silver and palladium
- Sulfur-free formulation. There is a trace amount (less than 1 ppm) of reducible sulfur in the bleached kraft paper. Reducible sulfur levels of less than 8 ppm are considered non-tarnishing.
- OEM approved
- Non-toxic, safe and easy to use; no special handling required
- Parts remain clean, dry, and ready to use immediately
- RoHS2 compliant
- Available in rolls, sheets, bags, and custom sizes.
- No shipping restrictions

### Typical Applications



#### ***Protecting silver surfaces in storage and shipment***

- Sensors, electrical components, automotive assemblies
- Wire
- Computer sub-assemblies and components
- Jewelry, chain and precious metals
- Musical instruments, silver antiques and flatware

To use, enclose clean, dry parts in Silver Saver paper. Position paper within 12" (200-300mm) of the metal. The Silver Saver chemistry absorbs hydrogen sulfide and other sulfurous gases in the packaging environment. When unwrapped, parts are clean and tarnish-free. No further processing is necessary prior to use.

#### **Silver Saver® Product Family**

Product	Basis Weight	Construction	Description	Protection
Silver Saver	40 lb/ream /65 g/m <sup>2</sup>	Bleached kraft, printed	Absorbs hydrogen sulfide and other sulfurous gases.	Silver
Silver Saver 60	54 lb/ream/ 88 g/m <sup>2</sup>	Bleached kraft, Not printed	Absorbs hydrogen sulfide and other sulfurous gases.	Silver



**DAUBERT EUROPE**  
The Leading Name in Corrosion Prevention®

Daubert Cromwell GmbH

Sitz der Gesellschaft: Hasenbergsteige 14, 71078 Stuttgart, Deutschland

Vertriebsbüro: Trimbургstr. 2 81249 München, Deutschland

Tel.: +49-89-4522036-10 E-mail: [Service@daubertcromwell.eu](mailto:Service@daubertcromwell.eu) [www.daubertcromwell.de](http://www.daubertcromwell.de)



# Technical Data

**Silver Saver®**  
Anti-Tarnish Paper

## Physical Data

Physical Properties		Typical Values	
Property	Units	Typical Value	Test Method
Finished Weight	lb/ream (g/m <sup>2</sup> )	44 (71)	T-410
Caliper	mil (µm)	4 (101)	T-411
Mullen Burst	psi (kPa)	37 (255)	T-403

		Machine Direction	Cross Direction	
Elmendorf Tear	g/ply (N/ply)	46 (0.45)	48 (0.45)	T-414
Tensile Strength	lb/in (kN/m)	26 (4.6)	15 (2.63)	T-494
Elongation	%	2	3	T-494

### Protection Time

Inside Dry Storage

24 Months (min)

Metal	Protection
Silver	Provides protection against sulfide tarnish when product is fully enclosed
Palladium	Provides protection against sulfide tarnish when product is fully enclosed
Nickel and nickel-plated steel	Compatible
Tin	Compatible
Gold	Compatible
Aluminum	Not recommended <sup>4</sup>
Zinc and zinc galvanized steel	Not recommended <sup>4</sup>
Copper	Not recommended <sup>4</sup>
Brass <sup>1</sup>	Not recommended <sup>4</sup>
Bronze	Not recommended <sup>4</sup>
Mild carbon steel	May protect; Test for compatibility
Category A <sup>2</sup>	Provides full protection in contact and vapor phases
Category B <sup>3</sup>	May protect; Test for compatibility

1. Brass alloys in the "red" area containing up to 20% zinc will act like copper; brass in the "white" area containing over 20% zinc and will act like Category A metals.
2. Category A metals include zinc, cadmium, nickel, cadmium-plated steel, and nickel-plated steel. These are prone to contact corrosion sensitivity with inhibitor chemicals, but will be protected as shown in the vapor phase.
3. Category B metals include lead, antimony, babbitt alloys, solder, magnesium or magnesium alloys.
4. "Not recommended" does not indicate incompatibility. Compatibility testing is always recommended. "Not recommended" indicates there may be more effective Daubert Cromwell products for these applications, such as Coppertex®, Alumitex®, Uniwrap® MPI others. Your sales representative can recommend optimal products for specific applications.

## Storage and Handling

Store in a cool, dry place, away from direct sunlight. Avoid storing outdoors, in high humidity, or at high temperature. Normal precautions common to good manufacturing practices should be followed in handling and storage. Any proposed use of the product in elevated temperatures should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

## Shelf Life

36 months from date of shipping, stored in the original, shipping container used by Daubert Cromwell.

## Approvals

RoHS, OEM Approved



**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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