

ANTIQUÉ COPPER PORTFOLIO — BRUSHED



The color shown is only an illustration of the metallic appearance. Please request a color sample for a more accurate representation of the actual finish by calling toll free 800.654.1159 or email info@lorin.com.

- 1880-425-NP090703
- 1880-425-NP090706
- 1880-425-NP090709
- 1880-425-NP090702
- 1880-425-NP090705
- 1880-425-NP090708

**AA Designation:**

AA-M12-C22-A34

**Product Description:**

Antique Copper Brushed is a product developed for exterior applications where UV stability is important to the designer. The Antique Copper Brushed product (s) utilizes a specialized anodizing process using a two-step electrolytic coloring system. The combination of an Architectural Class II film thickness with the inorganic coloring chemistry offers excellent corrosion protection along with superior fade resistance under harsh weathering conditions.

Antique Copper Brushed is a low cost alternative finish that simulates a copper appearance but will not patina like real copper nor create weathering stains on the sides of buildings.

The Antique Copper Brushed finish is a very versatile material that can be fabricated into numerous product applications.

**Aluminum Properties**

**Alloy:** 5205  
**Temper:** H34 and H25  
**Finish:** Embossed  
Short and Long Line Brushed

**Mechanical Properties**

**UTS:** 20.0 to 26.0 ksi  
**YTS:** 15.0 min  
**Elongation:** 4% min  
**T Bend:** 1t minimum

**Stock Gauge Availability <sup>1</sup>**

0.025" (0.6 mm)  
0.032" (0.8 mm)  
0.040" (1.0 mm)

**Stock Width Availability <sup>2</sup>**

48.0" (1219 mm)  
48.5" (1232 mm)

**Chemical Properties**

Si: 0.30 %  
Fe: 0.70 %  
Cu: 0.20 %  
Mn: 0.20 %  
Mg: 0.50—1.10 %  
Cr: 0.10 %  
Zn: 0.25 %  
Other: 0.15 %  
Al: Remainder

**Anodize Film Thickness <sup>3</sup>**

**Architectural Class II:**  
0.400 mil minimum

**Anodize Finish Properties**

**Optical:** Not Applicable  
**Gloss:** Matte Finish, No Gloss  
**Color Availability:**  
Light, L= 43.6 a=11 b=10.1  
Medium, L=38 a=12 b=9.7  
Dark, L=25 a=9 b=3  
*(Request a color sample. Call our toll free number 800.654.1159)*

**Seal:** ADT < 1.3 mg/in<sup>2</sup>  
**Quality Grade:** 2  
**Post Process:** Not Applicable  
**UV Exposure:**  
Light Color = Interior Use  
Medium Color = Exterior Use  
Dark Color = Exterior Use

**Industry Standards**

**AAMA 611-98**  
Voluntary Specification for Anodized Aluminum  
**The Aluminum Association**  
Standards and Data

**Applicable Test Methods**

**ASTM B-117**  
Test Method of Neutral Salt Spray  
**ASTM B-680**  
Test Method for Seal Quality of Anodic Coatings  
**ASTM B 137**  
Test Method for Measurement of Coating Mass per unit area of Anodic Coating



Antique Copper Panels



Antique Copper Chimney Caps

**Typical Applications**

- Composite Panels
- Standing Seam Roofs
- Roof Tiles
- Standing Seam Roofs
- Rain Gutters
- Fascia

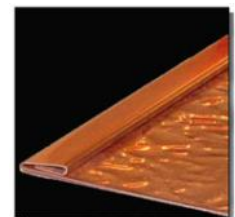


Door Kick Plates



Leaf Guards

- Door Kick Plates
- Ceiling Tiles
- Backsplashes
- Flashing and Trim
- Canopies



Decorative Trim

**Footnotes:**

- 1 Other gauges are available up to 0.060" [1.5mm].
- 2 Other widths are available up to 60" [1524 mm] maximum.
- 3 Architectural Class I may also be available.

## ANTIQUE COPPER PORTFOLIO — BRUSHED

### Product Test Data

#### SAE J1960 Accelerating Weathering:

The product performing with AAMA 611-98 Class II specification with over 9,400 hours of testing or a 5 year equivalency in the South Florida sun.

#### ASTM B 117-97 Neutral Salt Spray:

The product performing with AAMA 611-98 Class II specification passes 1,000 hrs.

### Availability and Cost

The standard lead time for **Stocked** gauges and widths is two weeks for anodizing and one week for any secondary services such as slitting, cut-to-length and applying transparent protective films or paper.

Please check availability of **Non-Stocked** materials by contacting our sales staff using our toll free number 800.654.1159 or email your request to [info@lorin.com](mailto:info@lorin.com). Some raw materials may have extended lead times.

### Sustainability and LEED

#### Recycled Content:

100% recyclable  
Post-Consumer Content = 1.6%  
Post-Industrial Content = 12.9%

*Lorin is developing a 70% post-consumer scrap content portfolio of products with one of our leading suppliers that will contribute to LEED certification. The recycled materials used in this aluminum alloy are produced with lower energy consumption and will reduce emissions of green house gases. For more information on this new technology, please contact our technical support staff using our toll free number 800.654.1159*

### Industry Standards

**NSF:** Meets NSF/ANSI Splash Zone Standards.

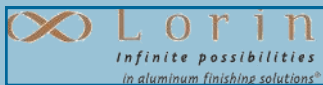
**RoHS:** Lorin Industries manufacturing facility in Muskegon, Michigan complies with the RoHS European directive.



## Interesting Fact:

The aluminum oxide layer created in the anodizing process is three times harder than the aluminum itself. The hardness is approximately equal to a sapphire second only to the hardness of a diamond!

800.654.1159



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Email [info@Lorin.com](mailto:info@Lorin.com)



### Secondary Services

#### Cut-To-Length Capabilities:

Width = 7" (178mm) to 62" (1575mm)  
Length = up to 192" (4876mm)  
Loading Gauge = up to 0.080" (2mm)

#### Slitting Capabilities:

Width = 0.75" (19mm) minimum  
Loading Gauge = up to 0.100" (2.5mm)

#### Other Secondary Services:

Protective Peel-able Films  
International Packaging

### Product Support Partners

Lorin Industries supplies aluminum coils and sheets to many original equipment manufacturers who specialize in the fabrication of anodized aluminum. Our support staff can assist you if you are looking for finished components. Please call our toll free number 800.654.1159 or email your request for product and application support to [info@lorin.com](mailto:info@lorin.com).

### Maintenance and Cleaning

If cleaning is desired, the anodized finish can be washed with mild soap and water followed by a clean water rinse. For more information on cleaning anodized aluminum please refer to the Aluminum Association Publication 92 Care of Aluminum.

### Warranty

A limited warranty is available upon request. The warranty is issued on a per project basis and can be applied for on line by completing an application for warranty at [www.Lorin.com](http://www.Lorin.com)

### Technical Support

A staff of factory trained personnel are available to offer technical assistance. Call our toll free number 800.654.1159 or email your question to our technical support staff at [info@lorin.com](mailto:info@lorin.com).