

**Finish Description:** Medium Bronze ColorIn® Short Line Brush Custom is a 'soft bronze' anodized textured finish that utilizes a specialized two-step electrolytic coloring process with excellent fade resistance. Note: This custom finish was created on a full hard aluminum substrate and is recommended for laminate applications that does not require a significant amount of forming.

### Industry Designations

**Aluminum Association**

AA-M12-C22-A24

**Mil A-8625F Classification**

Type II Sulfuric Anodize

### Industry Standards

**Mil A-8625F Anodizing Standard**

Anodic coatings for aluminum and aluminum alloys

### Aluminum Properties

**Alloy:** 5205

**Temper:** Full Hard

**Finish:** Short Line (SL) Brushed

### Mechanical Properties

**UTS:** 27 ksi [186MPa] minimum

**YTS:** Not specified

**Elongation:** 1% minimum

**Bend Radii:** Recommended 3t min

### Chemical Properties

**Si:** 0.15 %

**Fe:** 0.7 %

**Cu:** 0.03 - 0.10 %

**Mn:** 0.10 %

**Mg:** 0.6 - 1.0 %

**Cr:** 0.10 %

**Zn:** 0.05 %

**Other:** 0.15 %

**Al:** Remainder

### Gauge Availability

0.025" (0.6 mm)

0.040" (1.0 mm)

### Width Availability <sup>1</sup>

48.5" (1232 mm)

### Anodize Film Thickness

**Decorative Anodic Layer:**

### Anodize Finish Properties <sup>2</sup>

**Optical:** Not applicable

**Gloss:** Coarse Matte

**Color :** Medium Bronze

**Color Target:** < Delta E of 5.0

**UV Stable:** Yes

**Environment:** Interior

**Quality Grade:** 2

**Other:**

**Footnotes:** 1 - Other widths can be custom ordered. 2 - This product is available for exterior applications; a minimum film thickness of 0.250 mils (6 µm) is required.



## Medium Bronze ColorIn® Short Line Brush Custom (H19)

## TECHNICAL DATA SHEET

### Aluminum Secondary Services

- Shearing, Width Capabilities:**  
7" (178mm) - 62" (1575 mm)
- Shearing, Length Capabilities:**  
Up to 192" (4876 mm)
- Shearing, Loading Gauge:**  
Up to 0.080" (2.0 mm)
- Slitting, Width Capabilities:**  
0.75" (19 mm) min
- Slitting, Loading Gauge:**  
Up to 0.100" (2.5 mm)
- Other Secondary Services:**  
Protective peel-able films  
International packaging  
Perforating and embossing

### Maintenance and Cleaning

The anodized aluminum 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 or AAMA 609 & 610-09, Cleaning and maintenance guide for architecturally finished aluminum.

### Sustainability and LEED

- Recycled Content, 5005 alloy:**  
100% recyclable  
Recycled Content, 6.6%  
Reclaimed-Virgin Material, 93.4%  
2012.04.30 Mill6
- Volatile Organic Compounds:**  
The aluminum oxide layer does not contain any VOC's

### Availability

The standard lead time for stocked gauges and widths is two weeks for anodizing and one week for any secondary services such as slitting, shearing 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.

### Technical Support

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

### Product Support Partners

Lorin Industries works very closely with many manufacturers' in multiple markets who specialize in anodized aluminum fabrication. 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).

### Warranty

A 20-year limited warranty may be 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)

### Anodized Finish Test Data

Characteristic	Test Method	Standard	Test Results
Oxide Layer, Weight	ASTM B137 - Coating Dissolution		> 1.0 mg/cm <sup>2</sup> (6.8 mg/in <sup>2</sup> )
Color Uniformity	ASTM B2244 - Calculation Δ in Delta E	Meet the agreed upon color specification	Lorin Color D042, Δ in Delta E ≤ 5.0
Gloss Uniformity	ASTM D523 - 60° Gloss Reflectance	Coarse, Matte Finish	Lorin Gloss E1D, Nominal Target 30
Film Hardness	ASTM D3363 - Pencil Hardness	Based on anodic thickness, 3.2 μm (0.125 mils)	4H Hardness
Seal Quality	ASTM B136 - Dye Stain	Dye Stain Test	Pass, No Visible Stain

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