



LORIN'S GOLDBRITE® MILL FINISH ALUMINUM IS A FINISH DEVELOPED FOR INTERIOR AND EXTERIOR APPLICATIONS WHERE A WARM DECORATIVE APPEARANCE IS IMPORTANT TO THE DESIGNER.

The GoldBrite® mill finish utilizes a specialized impregnating inorganic dye process that provides a very uniform and consistent finish from the start of the coil to the end. The GoldBrite® mill finish product is a low cost alternative finish that simulates a brushed brass appearance but will not tarnish like natural brass.

INDUSTRY DESIGNATIONS

Aluminum Association
AA-M12-C30-A23
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 5005
Temper Half Hard
Finish Mill Finish

MECHANICAL PROPERTIES

UTS 20-26 ksi [138-179 MPa]
YTS 15 min [103 MPa]
Elongation 4% to 5% min

CHEMICAL PROPERTIES

Si 0.15%
Fe 0.07 %
Cu 0.03 - 0.10 %
Mn 0.10 %
Mg 0.60 - 1.0 %
Cr 0.10 %
Zn 0.05 %
Other 0.15 %
Al Remainder

ANODIZE FILM THICKNESS

Decorative Anodic layer:

ANODIZE FINISH PROPERTIES

Optical Chemically Brightened
Gloss N/A
Color Light/Med Gold
Color Target < Delta E of 8.0
UV Stable Yes
Environment Interior and Exterior
Seal S3 Duplex Seal III
Quality Grade 2
Other None

WIDTH AVAILABILITY

48.0" (1219 mm)

Other widths can be custom ordered.

GAUGE AVAILABILITY

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

Other gauges can be custom ordered.

ANODIZED FINISH TEST DATA

CHARACTERISTIC	TEST METHOD	STANDARD	TEST RESULTS
Oxide Layer, Weight	ASTM B137 - Coating Dissolution		> 1.5 mg/cm ² (9.7 mg/in ²)
Film Hardness	ASTM D3363 - Pencil Hardness	Based on anodic thickness, 6 µm (0.205 mils)	9H Hardness
Weathering	SAE J1960 - ATLAS Accelerated testing		Δ Delta E 4.17; 10,957 hours equivalent to 5.5 years
Corrosion Resistance	ASTM B117 - Neutral Salt Spray	500 hours exposure	Pass, No Visible Pits
Seal Quality	ASTM B136 - Dye Stain	Dye Stain Test	Pass, No Visible Stain

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%

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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. 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.

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.

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 Lorin.com.