



RUST IS A FINISH DEVELOPED FOR EXTERIOR APPLICATIONS WHERE THE COLOR OF RUST IS SIMULATED IN A COPPER MAROON LOOK.

The Rust is an exterior grade Class I .750 ml or Class II .425ml product that replicates the beautiful look of natural rust color. The finish utilizes a patented anodizing process using a 'modified' two-step electrolytic coloring system. The combination of film thickness with the inorganic coloring chemistry provides excellent durability and beautiful color consistency. It will definitely add the beauty and charm of a rust look to your next exterior project.

INDUSTRY DESIGNATIONS

Aluminum Association
AA-M12-C22-A34
Mil A-8625F Classification
Type II Sulfuric Anodize

INDUSTRY STANDARDS

AAMA 611-12
Voluntary specification for anodized architectural aluminum
Mil A-8625F Anodizing Standard
Anodic coatings for aluminum and aluminum alloys

ALUMINUM PROPERTIES

Alloy 5005
Temper HalfHard
Finish Mill Finish

MECHANICAL PROPERTIES

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

CHEMICAL PROPERTIES

Si 0.30 %
Fe 0.07 %
Cu 0.20 %
Mn 0.20 %
Mg 0.50 - 1.1 %
Cr 0.10 %
Zn 0.25 %
Other 0.15 %
Al Remainder

ANODIZE FILM THICKNESS

Architectural Class I & II .750 & .425ml

ANODIZE FINISH PROPERTIES

Optical N/A
Gloss Rust
Color Nickel
Color Target < Delta E of 5.0
UV Stable Yes
Environment Exterior
Quality Grade 2
Other None

WIDTH AVAILABILITY

48.0" (1219mm)

GAUGE AVAILABILITY

0.040" (0.6 mm)

ANODIZED FINISH TEST DATA

CHARACTERISTIC	TEST METHOD	STANDARD	TEST RESULTS
Oxide Layer, Weight	ASTM B137 - Coating Dissolution		>1.0 mg/cm ² (6.8 mg/in ²)
Film Hardness	ASTM 3363 - Pencil Hardness	Based on a anodic film thickness, 3 µm (0.125 mils)	4H Hardness
Craze Resistance	AAMA 611-12 - Thermal Crazing of the oxide layer	AAMA 611-12, oxide layer shall not craze less than 82°C (120°F)	No visible evidence of Thermal Crazing
Seal Quality	ASTM B680 - Acid Dissolution	AAMA 611-12, max weight loss shall be 40mg/dm ² (2.6mg/in ²)	< 20mg/dm ² (1.3mg/in ²)

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 Mill#6

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.