

Appliance & Foodservice Solutions



Get Cooking With Anodized!

From the side-by-side gleaming AlumaPlus outfitted refrigerator in your home to the ClearMatt Brushed ice machine, food preparation area or beverage dispenser in your favorite restaurant, nothing spices up a kitchen like coil-anodized aluminum.

Our clear products are NSF Standard 51 certified and fingerprint resistant. Anodized aluminum products are approximately one-third the weight of other metals including stainless steel and copper. And, with the price of stainless increasing daily, coil anodized aluminum makes more sense now than ever.



Why Not Anodized?

Appliance & Foodservice Solutions

- | | |
|-------------------------------------|--|
| Appliance Panels | Low Impact Table Tops and Preparation Surfaces |
| Back Splashes | Range and Dishwasher Fronts |
| Beverage Dispenser Housings | Range Tops |
| Cooking Hoods | Rice Cooker Skins |
| Edge Banding / Trim Applications | Small Appliances |
| Grills & Outdoor Cooking Components | Walk-In Cooler Fronts & Trim |
| Ice Machine Housings | |



Product Solutions

Product	UV Stable	Product	UV Stable
Commercial Gauge Products			
AlumaPlus Long Line Brush	N	AlumaPlus Micro	N
AlumaPlus Matte Mill Finish	N	AlumaPlus Polished Mill Finish	N
AlumaPlus Short Line Brush	N		
		BlackBrite	N
ClearBrite	Y		
ClearBrite Ultra	Y	CopperBrite	N
ClearBrite Brushed Short Line	Y	CopperMatt Brush	N
ClearMatt	Y	CopperMatt Micro	N
ClearMatt Brushed Short Line	Y		
ClearMatt Micro	Y		

Lorin Industries

www.lorin.com – info@lorin.com

Domestic – 1-800-654-1159

International – 1-231-722-2631

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Product Solutions

Product	UV Stable	Product	UV Stable
Commercial Gauge Products			
ColorIn – Black	Y	GoldBrite	Y
ColorIn – Extra Light Bronze	Y	GoldBrite Ultra	Y
ColorIn – Light Bronze	Y	GoldBrite Brushed Short Line	Y
ColorIn – Medium Bronze	Y	GoldMatt – Medium Gold	Y
ColorIn – Dark Bronze	Y	GoldMatt – Dark Gold	Y
ColorIn – LA Extra Dark Bronze	Y	GoldMatt Micro	Y
		GoldMatt Brushed Short Line	Y
SmokeBrite	N		
SmokeMatt Micro	N	SmokeMatt Brushed Short Line	N
Note:			
ColorIn products available on Mill Finish, Short Line Brush and MicroMatt aluminum finishes.			
Foil Gauge Products (Lamina)			
AlumaPlus Long Line Brush	N	NaturalMatt 50 Gloss	Y
AlumaPlus Polished Mill Finish	N	NaturalMatt 90 Gloss	Y
		NaturalMatt Butler Brush	Y
GoldMatt Butler Brush	Y	NaturalBrite Butler Brush	Y
GoldBrite Butler Brush	Y		
Functional Product Solutions			
AnoGrip	Y	Adhere	Y
High Strength Anodized Solutions			
MacPac-S Products			

Product Enhancements, Standards & General Information

Adhere

Most interior grade products are available with Adhere on the backside. Additional charges and minimum order quantities apply to all products with Adhere.

Color Stability

Not all products in our portfolio of UV stable and will fade with direct exposure to sunlight over time. These products are identified in the chart on page 2 and on their respective SpecData sheets online. If additional coatings will be applied to your finished product, consider utilizing an UV stable coating to maintain the anodized color.

Product Enhancements, Standards & General Information

High Pressure Laminate Applications

Lorin products have successfully performed within High Pressure Laminate (HPL) process under the following conditions:

- 320 Degree Fahrenheit heat
- High Pressure / High Heat – 1 hour
- Bonded with a phenolic resin soaked core sheet.

If you are using a process outside of the HPL process outlined above, we encourage you to purchase a small quantity of anodized aluminum to confirm product performance within your own process prior to ordering full production quantities.

High Strength Aluminum Options

Lorin now features MacPac-S products featuring a high strength aluminum anodized to your specifications. Not all gauges and widths are stocked. Inquiry through Sales / Inside Sales.

Material Inspection

Material is reviewed for visual consistency from edge to edge at a distance of 5 feet or 1.5 meters looking straight at the material hanging from a vertical surface.

NSF Standard 51

Lorin clear anodized aluminum material is NSF Standard 51 certified. For a copy of our NSF Certification Letter, please contact us via info@lorin.com.

Surface Protection

Lorin recommends that surface protection be applied to all specular / high reflective finish products as well as any anodized product with a thin anodic film to reduce surface scratching during the production process.

Visual Standards & Limitations

Due to deviations which are inherent to the raw aluminum surface, anodized aluminum products may display a range of color shades which do not indicate a product defect. Please confirm with your Inside Sales / Sales Manager if your order is for standard inventory stock or a specific product that requires consistency throughout. Aluminum finishes are directional by nature and may show a color shift or shift in visual appearance when viewed at different angles. Please communicate running direction at time of assembly or finished product production.

Fabrication Characteristics

Bending (Brake Press)

- Handling pre-anodized stock has been found to be similar to handling other metals.
- Half hard tempers are most often used because of their formability and structural integrity.
- Where possible, use scrap material to adjust the depth of stroke required to accomplish the desired bend.
- Gradual bending of the material will help to minimize crazing of the anodic film.
- Strippable surface protection will protect the anodized surface during the bending process.

Fabrication Characteristics

Laminating

- Polyfilm surface protection is helpful and can be left on throughout the production process.
- Clean the substrate with a clean brush prior to laminating.
- Cut the sheet to size using sharp shears or a saw.
- Consider experimenting with saw and feed speed on scrap material prior to full production runs.
- Cut into the sheet so that the rough edges are on the back-side.
- Spray-guide contact adhesives work best. Apply them on the anodized aluminum first, then on the core material.

Roll Forming

- In many cases, no tooling changes are required when transitioning from other metals to anodized aluminum.
- Pre-anodized aluminum will take all minimum bend-radii as specified by the Aluminum Association.
- As with other metals, tooling should be kept polished.
- Chrome-plated rolls typically perform the best.
- Using surface protection will sometimes eliminate the need for lubricants.

Stamping & Blanking

- No major modifications in tool design are necessary.
- Consider reducing male-female die clearance to 2%-8%.
- Keep dies sharp.
- Consider adding a looping pit ahead of the press allows for smooth coil feeding.
- Synthetic grippers on feed work best.
- Lubricants may be eliminated, depending on the process.
- Use lint-less gloves when handling pre-anodized stock.
- Anodized blanks are protected and stackable.

Lorin Industries has enjoyed a rich history since 1943. Our world leadership in metal finishing continues through innovation and creativity, keeping us at the leading edge of technology.

Our success can be attributed to Lorin's people – our greatest asset. We strive to meet our customer requirements without fail and to identify new ways that we can work together to enhance our customers success.



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