

Utility Bar Code Nameplates and Labels Specifications

Material: Metal - .008" thick matte anodized aluminum is standard. Optional thicknesses include: .012", .032" and .063". **Foil** - .003" thick matte anodized aluminum is standard. .005" thick matte anodized aluminum is optional. **Serialization:** All alphanumeric bar codes are photo imaged with a human-readable equivalent. Guaranteed no skips in sequence. **Sizes:** Send email to metalcraft@idplate.com or fax request to 641-423-8898 or call 800-437-5283 for details on available sizes.

Affixing Method: Specially matched adhesives ensure maximum adhesion or optional holes available for mechanical fasteners (metal option only). **Shipment:** 10 work days upon receipt of order and proof approval. **To Order:** Call **1-800-437-5283** and ask for a Customer Service Specialist.

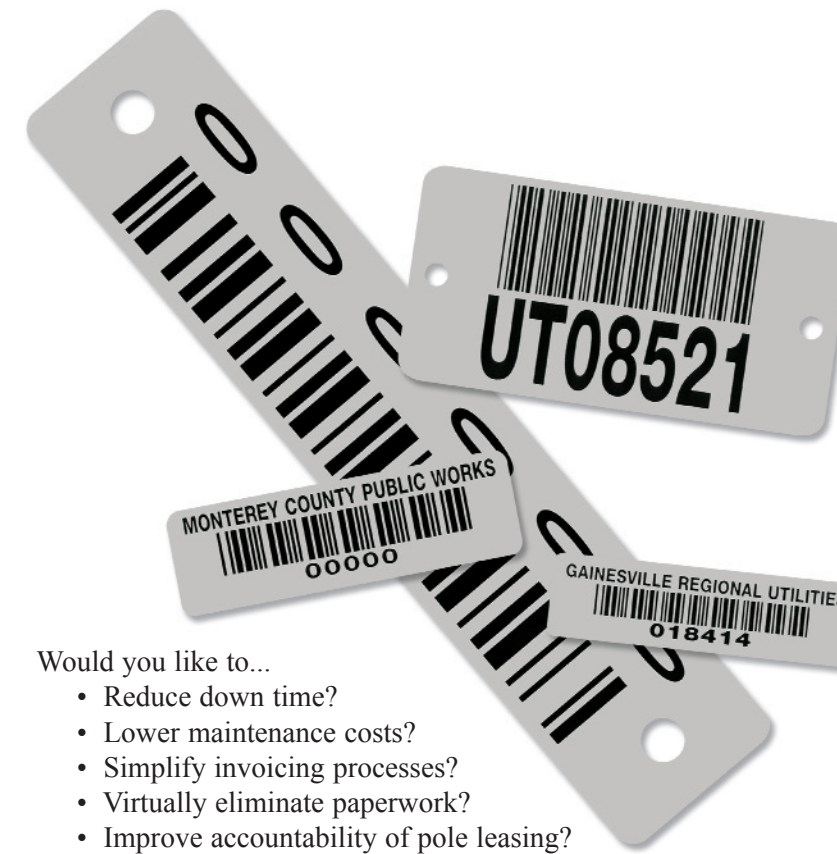
Save time and money by streamlining your pole inventory with bar code products from Metalcraft. How much savings does a bar code system actually produce? The cost comparison below illustrates that after an initial investment to implement the system, the impact to the bottom line is substantial.

Bar Code Justification

	Manual Tracking	Bar Code Tracking	Savings/Improvement
Number of poles	50,000	50,000	
Estimated time to enter pole information	5 minutes	1 minute	4 minutes
Estimated total time in hours to enter pole information	4,167 hours	833 hours	3,334 hours
Labor cost of entering pole information	\$141,167*	\$28,322*	\$113,356*
Accuracy of pole information entered	1 error in 300	1 error in 3,000,000	10,000%
Time it takes to key information once it is gathered	833 hours	5 minutes	832 hours, 55 minutes
Labor cost to key information once it is gathered	\$12,000**	\$0	\$11,662**
		TOTAL SAVINGS	\$125,018

* Labor cost estimated at \$34/hour
 **Data entry cost estimated at \$14/hour

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Would you like to...

- Reduce down time?
- Lower maintenance costs?
- Simplify invoicing processes?
- Virtually eliminate paperwork?
- Improve accountability of pole leasing?

Integrating bar code into your pole inventory using Metalcraft bar code nameplates can do all of this and more by increasing the accuracy and efficiency of data collection. These durable nameplates can track what is on the pole, to pole location, to the actual pole itself – making the process more efficient by saving you time and money!

Metal Bar Code Nameplates are ideal for customers who require permanent nameplates to stand up in harsh environments. Black copy, logos and bar codes are photographically reproduced for maximum clarity and detail and then sealed within the anodic layer of the aluminum – ensuring accurate and reliable reads for years to come.

Key Points

- Photographically reproduced black copy and bar codes ensure accurate and reliable reads
- Anodizing process protects black copy and bar codes from chemicals, abrasion and high temperatures
- Established company with a reputation for durable and reliable products
- Intensification process increases heat resistance and improves image resistance against damaging UV rays

Not sure what product you need?
 Call our trained Experts!

800-437-5283



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Photo anodized aluminum bar codes are known for maintaining their readability in a wide range of environments and uses. They perform better than other types of labels and nameplates in demanding environments with the exception of those environments that chemically attack aluminum, such as highly caustic or highly acidic applications. Recommended performance is in a pH range of 5.5 to 8.5.

Our photo anodized nameplates and labels are produced using an image intensification process

which results in higher product performance in heat and ultraviolet conditions.

The chart included with this information will help determine if anodized aluminum is right for your application. Always test a sample in your exact environment to ensure performance. Tests were conducted in laboratory environments and may or may not simulate your conditions.

Temperature Tests

Product Tested	Test Conditions	Effect on Readability
Image Intensified Photo Anodized	265 hours 500°F 90 hours 600°F 60 hours 700°F	Dark reflectance is reduced at these thresholds. This can affect readability.*

Ultraviolet Exposure Tests

Product Tested	Test Conditions	Effect on Readability
Image Intensified Photo Anodized	Weatherometer, 20 years equivalent	Reduced overall readability after these thresholds.*

Abrasion Tests

Product Tested	Test Conditions	Effect on Readability
Image Intensified Photo Anodized	Plates were brushed for 7000 cycles with a stiff nylon wheel (C-17) at a 1000 gm (16 oz.) load	Reduced overall readability after this threshold.*

Environmental, Chemical Atmosphere & Contact Tests

Characteristics	Test Conditions	Result
Acids and Bases	Ammonium Hydroxide 2 hours at 1%, 2 hours at 5%	Slight dulling of image; affects overall readability*
	Ferric Chloride, 10%, 16 hours	No effect
	Nitric Acid, 1%, 40 hours	No effect
	Phosphoric Acid, 1%, 40 hours	No effect
	Sodium Hydroxide	Affects overall readability
	Sulfuric Acid, 10%, 24 hours	No effect
Cleaning Agents	Water	No effect
	Tetra sodium pyrophosphate, 1%, 40 hours	No effect
	Trisodium Phosphate	No effect
Fungus Resistance		Visual reading of "0" per ASTM-G21
Moisture Resistance		No deterioration after 10 humidity cycles per MIL-STD-202, method 106
Low Temperature Resistance		No deleterious effect of image fade after 1 hour at -50°F. No impairment of legibility upon exposure at -67°F.
Organic Solvents	Ethyl Alcohol	No effect
	Heptane, 72 hours	No effect
	Hydraulic Fluid	No effect
	JP-4 Fuel	No effect
	Kerosene	No effect
	Methyl Ethyl Ketone	No effect
	Skydrol	No effect
	Turbine sodium pyrophosphate, 1%, 40 hours	No effect
Salt Spray Corrosion	Salt Spray, 5% at 95°F, 700 hours	No effect; "Very good" corrosion resistance after 113 days seawater exposure
Stain Resistance		No black fading when plates are exposed to tincture of iodine
Thermal Shock		No deterioration after 3 cycles between -65°C and 125°C

*Bar code labels and nameplates exhibit reduced readability when they cannot be read from the same distances and/or angles as before they were degraded. In most cases the print contrast ratio has been reduced. Labels and nameplates may read, but they may require more attempts to read or may read at limited distances and/or angles.

Photo anodized bar code labels and nameplates read reliably in demanding situations. Different results may be experienced due to variances in reader type, reader distance, cleanliness of part surface or label or nameplate design. Please test a sample part for your application.