

# Universal On-Site Printable Mini RFID Tag



The On-Site Printable Universal Mini RFID tag is specifically designed to allow easy printing and encoding of RFID tags on-demand, providing a reliable, cost-effective solution for all your on-site printing RFID asset tag needs.

Whether your printer is located on the manufacturing floor or in a climate-controlled space, our On-Site Printable Universal Mini RFID tags have been constructed to reliably print and encode regardless of the printing location.

With a small footprint and low profile, these tags easily fit in smaller places and on assets where other tags may be too large. Developed using the same premise as our original Universal RFID Asset Tag, the tag utilizes a patented inlay design and passive RFID technology to obtain incredible read ranges on a variety of different materials - metal, plastic, and even wood.

The On-Site Printable Universal Mini RFID tag is also able to be shipped the same day/next day for a quick turnaround for your onsite printing needs. Delivered in convenient 500-piece rolls that load easily into industry-leading industrial thermal transfer printers, like SATO & Zebra brands, the On-Site Printable Universal Mini is easy to setup configure and maintain.



2019 Metalcraft, Inc.  
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# Universal On-Site Printable Mini RFID Tag

## Features

Smaller footprint and lower profile while still achieving excellent read range sets this product apart from others  
Patented inlay design obtains excellent read ranges regardless of surface—metal, plastic, even wood  
Designed for easy setup for printing and RFID encoding  
Thermal transfer printer receptive  
Available for Next Day Delivery

## Product Print Options

Barcode . Data Matrix . QR Code . RFID . Serial Number . Text

## Product Functionality

Abrasion Resistance . Chemical Resistance . Heat Resistance

## Popular Applications

Inventory . Manufacturing . Restoration . Wineries / Breweries . IT Assets . Schools

## Category

On Metal RFID . On Site Printable . Printable RFID . RFID Tags . Universal RFID

## Specifications Data

<b>Material</b>	<b>Thermal transfer printable polyester substrate</b>
Standard Adhesive	Pressure sensitive acrylic adhesive
Frequency Range	Custom designed UHF inlay uses Alien Higgs 3 chip or the Impinj R6P optimized for use between 902 - 928 MHz.
Sizes	2.75" x .75"
Packaging	Shipped in convenient 500-piece rolls that load easily into industry-leading industrial thermal transfer printers.
Shipment	Next day shipping available depending on order quantity and inlay availability.



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## Chemical Testing

The Onsite Printable Universal Mini tags were attached to a sheet of glass submerged in various chemicals for a 3 week period. Observations were made at the following intervals: 2 hours, 24 hours, 1 week, 2 weeks, and 3 weeks. A Motorola handheld RFID reader was used to test the samples.

### Chemical Test Data

Length of immersion	Water	Glass Cleaner	Bathroom Cleaner	Isopropyl Alcohol 99%	Acetone	NaOH pH 12.0	HCl ph 1.0	Brake Fluid
2 hours	no effect	no effect	no effect	no effect	no effect	no effect	no effect	no effect
24 hours	no effect	no effect	no effect	no effect	no effect	no effect	no effect	no effect
1 week	no effect	no effect	RFID tag read with difficulty (significantly lower hits/second)	No read	Tag structure weakened	Tag detached	no effect	no effect
2 weeks	no effect	RFID tag read with difficulty (significantly lower hits/second)	RFID tag read with difficulty (significantly lower hits/second)	no read	no read	tag detached	no read	no effect
3 weeks	tag peeled easily	tag peeled easily	no read; tag peeled easily	no read; tag peeled easily	no read	tag detached	no read; tag peeled easily	no effect

## Temperature Testing

High-temperature resistance test - These tags were attached to a sheet of glass at raised temperatures for 10 minutes. Tags were then removed from the oven and tested for readability immediately. Low-temperature resistance test - The Onsite Printable Universal Mini tags were attached to a sheet of glass at low temperatures outdoors. Tags were then checked for readability with a Motorola handheld RFID reader. Tags survived and were readable for 19 hours in Iowa winter conditions with temperatures between -21 to -26°F with no signs of failure.

### Temperature Test Data

Temperature	RFID read test (immediately out of oven)	Appearance of tags
125°F	Reads well	No change
135°F	Reads well	No change
145°F	Reads well	No change
165°F	Reads well	Slight curling at edge
185°	Reads well	Slight curling at edge
205°F	Reads well	Slight curling at edge
225°	Reads well	Severe curling at edge - tag discolored
250°	Test failed	Tag destroyed

## Read Range Testing

In many cases the tags read intermittently for longer distances than those indicated, however, the results reported below were for continuously responding reads.

### Read Range Test Data

Sample	Metal	Plastic	Cardboard	Wood	Glass
Average	13.47 feet	6.8 feet	6 feet	9.67 feet	13.33 feet