Universal MC RFID Tag

A versatile and affordable RFID tag made in the USA to fit a wide array of on-metal and standard applications, the Universal MC RFID Tag is available both preprinted and onsite printable to handle whatever asset tagging application you have.

Features	Preprinted or blank for thermal transfer printing and encoding on site IP68 rated Preprinted tags include a handy tag dispenser Next-day shipping for blank tags Compatible with RFID Tracking Software
Product Functionality	Abrasion Resistance . Chemical Resistance . Heat Resistance
Popular Applications	Government . Inventory . Hospitals . IT Assets . Manufacturing . Schools
Category	Manufacturing - RFID . Information Technology - RFID . Medical - RFID . Equipment Rental - RFID . Education - RFID . Asset Tracking - RFID . Tool Tracking - RFID . Work-in-Process - RFID . RFID Tags . RFID for Metal Surfaces

METAL CRAFT
ID MADE BETTER

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UNIVERSAL RFID BY METAL CRAFT

Specifications Data

Material	Polyester
Serialization	All alphanumeric bar codes are photo imaged with a human-readable equivalent. Guaranteed no skips in sequence. Code 39 with 2.7 to 9.4 characters per inch (CPI) is standard. Other bar code symbologies including Code 128, I 2 of 5, 2D DataMatrix and QR Code.
Label Copy	The label copy may include block type, stylized type, logos or other designs
Colors	Standard colors include black, red, yellow, green or blue. Custom spot colors are also available at no additional charge. Due to contrast needed for the bar code scanner, all bar codes are black.
Standard Adhesive	High performance adhesive
Frequency Range	860-960 MHz (UHF, Class I Gen 2)
Sizes	2.05" x 1"
Packaging	Produced and shipped in roll form.

Chemical Testing

Al tags still read post exposure. Isopropyl alcohol sample had 1/4" of edge erosion of adhesive on PET face sheet after 48 hours.

Chemical Test Data

Length of immersion	DI water	Salt water 5%	Bathroom cleaner	Glass cleaner	Diesel fuel	Brake fluid	Acetone	Isopropyl alcohol	Nitric acid	Hydrochloric acid	Sodium hydroxide
2 hours	no effect	no effect	no effect	no effect	no effect	no effect	adhesive ooze	no effect	no effect	no effect	no effect
24 hours	no effect	no effect	no effect	no effect	adhesive ooze	no effect	adhesive ooze	adhesive ooze	no effect no effect	no effect	no effect
48 hours	no effect	no effect	loss of adhesion to glass panel	no effect	adhesive ooze	no effect	tag delaminated	adhesive ooze	no effect	no effect	no effect

Destructive Testing

Tag materials withstand 2000 hrs. of exposure to UV-340a fluorescent lamps with a continual exposure cycle consisting of 8 hours UV-340a lamp exposure followed by 8 hours of condensation with no UV lamp exposure. Certain printed copy colors such as red and yellow did exhibit fade.

Destructive Test Data

Temperature Testing

Temperature Test Data

Read Range Testing

Read Range Test Data

Sample	Metal	Plastic	Cardboard	Wood	Glass	Free air
Average	15.05 feet	4.68 feet	5.22 feet	5.39 feet	4.81 feet	5.47 feet

Barcode Readibility Testing

Barcode Readability Test Data

Abrasion Testing

Abrasion Test Data

Label Adhesion Testing

Label Adhesion Test Data

Pull Testing

Pull Test Data