



# RFID Adhesive Closure Wristband Specifications

**ENCAPSULATION:** Specialized RFID inlay encapsulated between two layers of .0023” polypropylene material; designed for the comfort of the wearer.

**Label Copy:** The label copy may include block type, stylized type, logos or other designs.

**Colors:** Choose from our standard colors (black, blue, red, green or yellow), PMS color or four-color process for block type, stylized type logos or others designs. Due to contrast needed for the bar code scanner, all bar codes are black on white background.

**Serialization:** Bar code and human-readable equivalent is produced using the latest high-resolution digital technology available, which provides excellent clarity and easy scanning. Standard symbologies include 2D and QR code.

**Programming:** The bar code and human readable can be programmed into the RFID inlay as long as the information is in decimal or hexadecimal format. The programmed information can be locked, which prevents the RFID inlay from being rewritten. If desired, information

can be encoded that differs from the bar code and human readable. Metalcraft can encode up to 24 characters into the RFID inlay. With UHF, standard 24 characters can be encoded and more, dependent on inlay. NFC - for HF 14443: Can custom encode static or variable NDEF messages to provide endless functionality to your tags.

**Frequency Range:** UHF = 860-960 MHz;  
HF = 13.56 MHz

**Standards:** ISO 15693 (18000-3M1), ISO 14443 A/B

**Read Range:** Dependent on frequency range and reader/antenna configuration.

**Size:** 9 3/4” x 1”

**Shipment:** Approximately 15 work days depending on order quantity and inlay availability.

Call **1-800-437-5283** and ask for an ID Specialist

\*Available as RFID or non-RFID wristbands

## Test Description

Exposure tests were performed on RFID wristbands. These tests included exposure to chemicals/products normally in contact with wristbands at outdoor events and waterparks.

Full sample submersion	Chlorine water	Saline pool water	Tap water	Insect repellent	Sunscreen	Hand lotion	Hand soap
Inlay survived/readable	72+ hours	72+ hours	72+ hours	72+ hours	72+ hours	72+ hours	72+ hours
Print condition	72+ hours	72+ hours	72+ hours	72+ hours	72+ hours	72+ hours	72+ hours
Adhesive Condition	Secure/ remains tamper evident	Secure/ remains tamper evident	Secure/ remains tamper evident	Adhesive lifted without destruction*	Adhesive lifted without destruction*	Secure/ remains tamper evident	Secure/ remains tamper evident

\* All wristbands loss their adhesive bond at 72 hours submerged. This does not occur when the product is applied in normal usage scenarios.

RFID inlays were read using a Motorola handheld reader.