# PRODUCT DATASHEET

## HF NFC ON-METAL TAGS

**ISO/IEC 14443 | 13.56 MHz**

**Brand / OEM:**
**Soochak Bharat Technologies Private Limited**

## 1. Product Overview

Soochak Bharat **NFC On-Metal Tags** are specially engineered contactless tags designed to operate reliably when mounted directly on **metallic surfaces**.
Using an integrated **anti-metal (ferrite) layer**, these tags eliminate detuning effects caused by metal, ensuring stable read performance for **asset tracking, industrial identification, maintenance logs, and smart labeling** applications.

## 2. Key Features

- Optimized for direct mounting on metal surfaces
- Stable performance on steel, aluminum, and machinery
- Durable industrial-grade housing
- Waterproof and chemical resistant options
- Compatible with NFC-enabled smartphones and readers

## 3. Electrical & IC Specifications

| Item | Specification |
|------|---------------|
| NFC IC | NTAG213 / NTAG215 / NTAG216 / Feiju F8213 (Optional) |

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| | |
|---|---|
| Frequency | **13.56 MHz** |
| Protocol | ISO/IEC 14443 Type A |
| NFC Type | NFC Forum Type 2 |
| Operating Mode | Passive (Battery-free) |
| UID | 7 Bytes (Read-Only) |
| User Memory | 144 / 504 / 888 Bytes (Chip dependent) |
| Data Retention | 10 Years |
| Write Endurance | ≥100,000 Cycles |
| Read Range | Up to 1–4 cm on metal (Reader dependent) |

## 4. Mechanical & Material Specifications

| Parameter | Specification |
|---|---|
| Tag Type | On-Metal NFC Tag |

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| | |
|---|---|
| Housing Material | ABS / PPS / Epoxy |
| Anti-Metal Layer | Ferrite Sheet |
| Mounting Options | Adhesive / Screw / Rivet |
| Color | Black / White (Custom available) |
| Shape | Round / Square / Rectangular |
| Thickness | 1.5 – 5 mm (Model dependent) |
| Protection Rating | IP65 / IP67 / IP68 (Model dependent) |

## 5. Environmental Specifications

| Condition | Range |
|---|---|
| Operating Temperature | −25°C to +70°C |
| Storage Temperature | −30°C to +80°C |
| Humidity | 20% to 95% RH |

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| Chemical Resistance | Oil, grease, mild solvents |
|---|---|
| Shock & Vibration | Industrial grade |

## 6. Adhesive & Mounting

- High-bond industrial adhesive (3M™ or equivalent)
- Optional screw / rivet mounting for heavy machinery
- Works on steel, aluminum, iron, and painted metal surfaces

## 7. Personalization & Customization

- Laser engraving (Logo, Serial No.)
- Printed text & graphics
- UID / Data pre-encoding
- QR Code / Barcode (Optional)
- Custom size & form factor

## 8. Applications

- Industrial Asset Tracking
- Machine & Tool Identification
- Maintenance & Inspection Logs
- IT Asset Management
- Equipment Calibration Tracking
- Smart Manufacturing (Industry 4.0)

## 9. Compliance & Standards

- ISO/IEC 14443 Type A

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- NFC Forum Compliant
- RoHS & REACH Compliant

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## 10. Packaging Details

| Item | Specification |
|------|---------------|
| Packing | Individual / Bulk Packing |
| Quantity | As per customer requirement |
| Shelf Life | 2 Years |

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## 11. Handling & Installation Guidelines

- Clean metal surface before mounting
- Apply firm pressure for adhesive bonding
- Avoid installation on curved surfaces beyond specification
- Do not bend or crack the tag housing

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**Manufacturer / OEM**

**Soochak Bharat Technologies Private Limited**
*Industrial NFC • On-Metal RFID • Smart Identification Solutions*

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