

UHF SILICONE
RFID FOR INDUSTRIAL LAUNDRY

W#TAG™

by **Werkcam** (Italy)

LONG DISTANCE
BULK READING

ETERNAL

ULTRAFLEXIBLE

SMALL

ENGINEERED TO WITHSTAND
INDUSTRIAL WASHING



IN AN EXCLUSIVE SILICONE SHELL

UHF UNIQUE RFID PERFORMANCES

- **SILICONE shell:** protects our unique UHF technology, for hundreds of severe industrial cycles of washing - rinsing - drying - ironing operations
- The custom-made design of the antenna & microchip RFID inlay, insures power and reading easiness at **long distance**
- **Smallest dimensions** in top-end market
- **Simultaneous bulk reading** for hundreds of tags: reliable and fast inventory analysis
- Unique, **patented**, automatic LIQUID SILICONE production technology
- **Soft and flexible** SILICONE shell structure: perfectly elastic, resistant to the worst twisting, bending and pressing stresses
- Liquid injection moulding silicone (made in Germany): absolutely withstanding **temperature / aging / hot water / soaps / chemical products attack**
- Easily applied in a custom made soft and high resistance **small pouch**
- Extensively tested in laboratory and in hundreds of **real laundry cycles**
- Powered by **smartres**

W#TAG™ by **Werkcam**

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Werkcam presents its new **W@H TAG™**, the state-of-art invention for industrial laundry applications. It's engineered mixing the most modern custom designed technology for UHF RFID, with the new absolute protection, and comfortable flexibility of the patented LIQUID SILICONE technology

ADVANTAGES OF RFID EXTRA-DISTANCE TECHNOLOGY

- Simultaneous reading for hundreds of tags , in a single shot (bulk reading)
- High performances antenna: distance of reading from several inches to 3 meters (10 feet)
- **NXP** microchip: giving exceptional memory capacity and data transmission
- Quick inventory operations, and **no mistakes!**

ADVANTAGES OF LIQUID SILICONE TECHNOLOGY

- **Absolutely not allergenic**
- Absolutely soft, without any hard inner part (no fabrics abrasion)
- Absolute protection against hot water, soaps, chemical agents normally used in industrial washing
- Absolute warranty about not-aging, long life, colors migration to the fabrics
- Absolute comfort, thanks to the silicone flexibility, and perfect elasticity (no deformations: the tag always comes back to its initial shape). So the antenna geometry remains unchanged, guaranteeing perfect data transmission
- Absolute resistance to the thermic stresses: no matter about high temperatures during washing, drying, ironing, autoclave sterilisation



ROI ADVANTAGES

Forget the high cost of the barcode and HF metods. Your company will cut time necessary for inventory, will reduce the number of required staff, and the skill level needed with old technologies. The handwork will be strongly reduced, and **no more mistakes!**

W@H TAG™ SPECIFICATIONS

Compliance	ISO/IEC 18000-6C EPC Class 1 Gen 2
Tag dimensions (mm)	48 x 16 x 2.5
Tag material	Liquid silicone rubber, injection molded
Tag lifetime	3 years or 200 cycles
Microchip memory	128 bit EPC / 96 bit TID
Read distance	Up to 3 meters (10 feet) depending from test conditions
Operating frequency	860/960 MHz
Operating temperature	Washing: 90°C (194°F) 20 minutes, 200 cycles Drying: 180°C (356°F), 200 cycles Ironing: 200°C (392°F), 15" Autoclave: 135°C (274°F), 5 minutes , 3.2 bar, RH 85%
Storage temperature	-40°C to +120°C (- 40°F to +248°F)
Chemical resistance	Detergents, softeners, all industrial washing Chemicals

SMALL POUCH SPECIFICATIONS

Material	Polyester 100%, 4 colors embroidery
Dimensions	60 x 22 mm (2.3" x 0.9") more 5 mm (0,20") for safe sewing
Special offers for customisation	