

Stripe RAIN RFID Label

Stora Enso, Intelligent Packaging



UHF Label Optimized for Metal Item Tagging

Stora Enso's Stripe UCODE 8 UHF label is designed for on-metal item level tagging in retail, industry, and pharmaceutical applications, just to name a few. It has excellent performance on diverse surfaces, especially on metallic objects like machine parts and metallic and metallized packages such as soda cans, snack bars and pouches as well as liquid carton packages.

The thin label structure and small size of Stripe is a cost efficient on-metal solution for unmanned retail, supply chain and asset management. The label has a partial adhesive coating which bonds it to the product leaving the remaining tab to flag out. When applied on a metal item, the attached part exploits the metal surface as part of the antenna structure to increase the performance of the tag. A 15 meters read distance can be achieved, depending on the geometry, size, and surroundings of the metal object.

Comparison between Stripe UCODE 8 and traditional on-metal tag types:

	Price	Performance	Printability	Thickness	Flexibility
On-metal hard tag	*	***	*	*	*
On-metal label	**	*	**	**	**
Stripe	***	***	***	***	***

Applications



Industry



Retail



Pharma



Apply the tag part with adhesive on (metallic) object and let the remaining tab to flag out.

Stora Enso's
Stripe UHF label
in natural size.



Technical details

Sales Code

500010

IC & electrical details

NXP's UCODE 8

128 bit EPC

860 - 960 MHz

EPC Gen2v2, ISO 18000-63

Size

Paper Tag size 43 x 21 mm / 1.69 x 0.83 in

Web width

46 mm

Operating temperature

-5 °C...+60 °C / +23 °F...+140 °F

Delivery details

76 mm / 3 in core

5 000 pcs/reel, 40 000 pcs/box

1 year shelf life in +20 °C / 68 °F, 50 % RH

Key features of Stripe

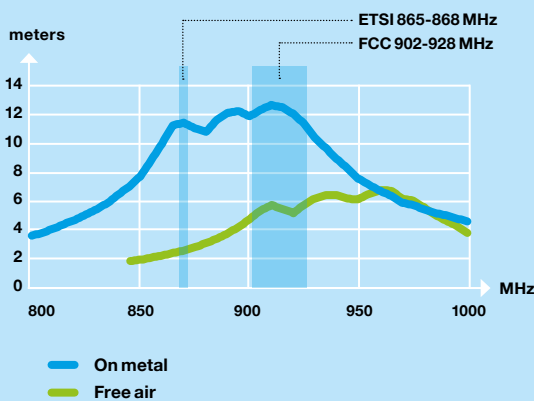
Designed for hard-to-tag items

Radio waves can be subject to interference by metal, liquid products, consistency of goods or the packaging material. This affects the tag performance and can lead to a shorter read distance or totally non-readable tag. Stripe label will partly adhere to e.g. a metallic product. The adhered part then uses the metal surface as part of the antenna structure and enhances the performance of the tag. The thin label and small form enable the use of Stripe in small items in retail applications as well as tagging of small metallic industrial tools and parts without compromising read performance.

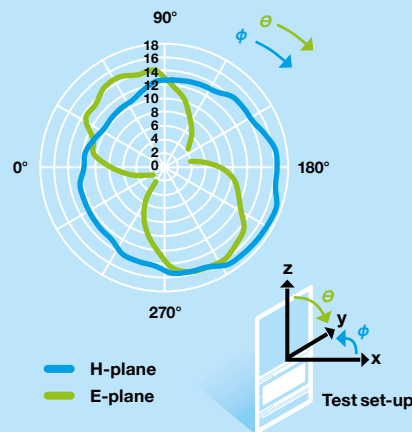
Featuring UCODE 8

The auto adjust feature of UCODE 8 is also evident on the Stripe inlay. This feature guarantees consistent performance across a variety of dielectrics and frequency ranges even in rapidly changing environments. The Stripe labels are compatible with RFID printers for easy printing and encoding.

Read Range

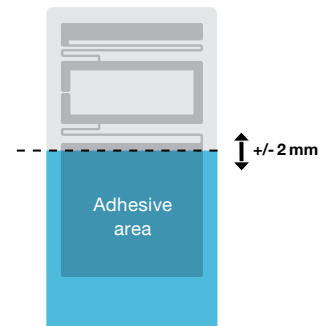


Orientation sensitivity (@ 915 MHz)



Label application

Peel off tag from liner. Apply the tag part with adhesive on (metallic) object and let the remaining tab to flag out. Tolerance for tag position is +/- 2 mm in order to guarantee best performance.



Contact us for more information:

www.storaenso.com/intelligentpackaging

The performance of the product should always be tested in the actual application conditions. Our recommendations are based on our most current knowledge and experience and the pictures and illustrations presented in this document are for illustration purposes only. As our products are used in conditions beyond our control, we cannot assume any liability for damage caused through their use. Stora Enso reserves the right to change its products and services at any time without notice.



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