CorkTag™

TOPPAN

An innovative NFC tag allowing detection of any attempt to counterfeit, remove, tamper with or even pierce the cork of a wine bottle and providing efficient protection against the problem of bottle refilling.

Special IC chip : Opening Detection

CorkTag™ covers th top of the cork stopper of the wine with special IC chip and two antenna circuit for detecting disconnection and RF communication. Therefore, when not only the cork is opened, but also the needle penetrates the top, CorkTag™ can detect and record them in IC chip.

Detection of fraud and cork piercing

With IC chip with a disconnection detection circuit and the antenna structure originally developed by Toppan, CorkTag™ can offer strong protection against illegal cork opening, bottle reuse and cork piercing or refilling.

Consumer Engagement

The scanned data can be read by a dedicated app which enables the authentication, gray market detection, and marketing services for connected objects. End-user can easily check the origin of bottle, get information on the winery, get food pairing recommendations, participate in marketing campaigns or find the nearest shop to buy the same bottle.

Product Line-up

157×28mm

Brief Specification

Size	Standard： 157×28mm
IC Chip	NTAG 424 DNA TT / SIC43NT
Communication frequency	13.56MHz
Communication protocol	NFC : ISO 14443 (A)
Encryption method	Encryption algorithm used in banking business
Storage conditions	Temperature: +20°C +30° Hygrometry : (%RH): 20% / 60%
Application conditions	Temperature: +5°C +30°C Hygrometry : (%RH): 20% / 80%
Use conditions	Temperature: -5°C +60°C Hygrometry : (%RH): 20% / 80%
Materials	Conform to FDA 21CFR 175.105 (Indirect food contact)
Options	Sensors detecting removal

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