Ebi | SECURE
BRAND PROTECTION

A range of security features which Ebi can incorporate
into print and packaging for the following benefits:

Brand protection

Counterfeit protection

Anti-copying & scanning

Authentication

Tamper Evident

Several features can be incorporated within a single product making the product Ebi Secure

• Full inhouse design team in Ebi Create

• Over 40 secure features all produced in house due to versatility of printing and finishing capabilities

• Competitive production and solutions, exporting globally

• Full consultancy from ideation through to product design and deployment

• Full consultancy on securely structuring secure events and document publications

• Full product range

• Diverse materials and formats for all applications

Produced in a manufacturing facility with the below certification.

LLOYD'S REGISTER QUALITY ASSURANCE · ISO9001
LLOYD'S REGISTER QUALITY ASSURANCE · ISO14001
UKAS MANAGEMENT SYSTEMS 001

ACS REGISTRARS
Information Security
ISO 27001
UKAS MANAGEMENT SYSTEMS 229

FSC
www.fsc.org
FSC® C009616
The mark of responsible forestry

ISO 12647-2
Proficient Printer
mellow COLOUR

Sedex®
Registered

This document is a guide only.

Specialist Inks

	Brand protection	Counterfeit protection	Anti-copying & scanning	Authentication	Tamper Evident
Metallic Inks	●		●		
Liquid Crystal Ink	●		●		
Photochromic Ink			●		
Iridescent Inks	●		●		
Glow in the Dark Inks	●		●		
Thermochromic Ink	●		●		
Day Glo Fluorescent Inks	●		●		
UV Fluorescent - Invisible Ink	●		●	●	
Colourshift / Optically Variable Ink		●	●	●	
Hydrochromic Ink - Irreversible	●				●

Print Techniques

	Brand protection	Counterfeit protection	Anti-copying & scanning	Authentication	Tamper Evident
QR Codes	●			●	
Personalisation				●	
Lenticular Image switch	●		●		
Microtext	●	●		●	
Hydrochromic - reversible - Wet & Reveal	●		●		
Scratch & Reveal	●			●	
Guilloche	●	●			

Specialist Features

	Brand protection	Counterfeit protection	Anti-copying & scanning	Authentication	Tamper Evident
Security Die Cuts					●
Hot Foil	●		●		
Surface Emboss / Deboss	●		●		
Holographic Foil	●	●	●	●	
Tamper Evident Writable Areas				●	●
Machine Readable Taggants	●			●	
Encapsulating / Laminating	●				●
Flash Photo & Reveal	●		●	●	
Void Release labels					●
Hologram Label	●	●	●	●	
RFID labels	●			●	
Frangible Label					●

The security features described on this chart are a guide only and FOC samples can be supplied for testing.

We do have more security features available, which may be more suite able for you product.

Please give us a call, on 01773 761341. Our experienced teams can ensure you get the right product for the right campaign.

Specialist Inks	
Metallic Inks	The ink contains metallic particles which are not able to be copied/printed through colour photocopies, digital scanners and computer printers. This provides a low security anti-photocopy feature.
Liquid Crystal Ink	Highly responsive to temperature change, quickly changing colour reversibly as they are warmed or cooled, These inks change colour through a full spectrum of colours, and work well with body heat.
Photochromic Ink	These inks are colourless with indirect light, they change colour dramatically when placed in direct sunlight and can also be viewed with a UV light / torch. When the direct light source is removed they fade back to colourless.
Iridescent Inks	The inks change colours between almost transparent and a iridescent pearl shimmer, which cannot be copied/printed through colour photocopies, digital scanners and computer printers.
Glow in the Dark Inks	These glow in the dark inks, absorb light energy, store it and then emit a green glow in low light conditions. The brightness and duration of the glow is dependant on both the strength of the exposed light and the time that the print has been exposed to the light source, essentially charging the ink with light energy.
Thermochromic Ink	Ink that changes colour or disappears when temperatures increase or decrease by heating or cooling - they can be used to reveal a hidden code / message.
Day Glo Fluorescent Inks	These Fluorescent inks, appear bright in daylight conditions. Are available in a range of bright colours and are not able to be copied/printed through colour photocopies, digital scanners and computer printers.
UV Fluorescent - Invisible Ink	Security inks that are invisible until exposed to UV light - an invisible multi-coloured UV Fluorescent image can be created out of a combination of 2, 3 or more of these invisible colours, that will then Fluoresce brightly when illuminated with a UV light/torch.
Colourshift / Optically Variable Ink	Inks that change between 2 or 3 different colours when viewed from different angles - Ebi have access to inks that are governed by strict restricted use policies
Hydrochromic Ink - Irreversible	Irreversible Hydrochromic inks, that have a colour, that then becomes colourless with addition of water, and then stay colourless once it dries.
Print Techniques	
QR Codes	Printed codes that can link to websites or verification software.
Personalisation	
Lenticular Image switch	A combination of specialist lens and software that are used to create dazzling interlaced images that switch between multiple images when viewed from different angles.
Microtext	Very small text characters that are only visible under a magnified view and not with a naked eye
Hydrochromic - reversible - Wet & Reveal	Hydrochromic ink -reversable, it is white when dry and translucent when wet, once the ink dries it goes white again and so is ideal for obscuring messages, called "Wet and Reveal" when used to reveal a hidden code.
Guilloche Pattern	A sophisticated design technique which has a very precise intricate and repetitive pattern that is extremely difficult to replicate

Specialist Features	
Security Die Cuts	Cuts can be added to a label such that if it is removed from its surface it will tear
Hot Foil	Hot foil is available in many metallic colours and provides a low level security anti-photocopy feature.
Surface Emboss / Deboss	A raised or indented pattern or shape that is both a visible and tactile feature.
Holographic Foil	Range of holographic foils, from decorative, security and high security holograms, that can incorporate multiple levels of security. Standard security holograms can be enhanced with intricate foil dies. Security holograms can be designed and originated especially for the security customer / project using a sophisticated and restricted origination process the bespoke hologram can include nanotext, microtext, image switches, laser codes, multiple levels, 2D and 3D elements, colourshifts, nanomaps etc. etc. etc
Scratch & Reveal	Opaque Latex inks, that can be rub removed/scratched off to reveal a hidden code / message.
Tamper Evident Writable Areas	Writable areas can be infilled with a pattern of ink such that once written on if the writing is removed it will also affect the background pattern showing tamper evidence
Machine Readable Taggants	Semi - forensic print feature, using invisible taggant inks that require specialist detection devices.
Encapsulating / Laminating	Protecting personalised data by the use of protective overlays.
Flash Photo & Reveal	A code or message can be printed with clear retro-reflective pigments in the ink which will only appear when someone takes a flash photo.
Void Release labels	Leave a void message upon attempted removal from the surface indicating the label has been tampered with so it cannot be reused
Hologram Label	Holographic labels are available with all of the hologaphic features discussed in the Holographic Foil section.
RFID labels	Contactless, Radio Frequency Identification labels, incorpoarting antennas and microchips. Can be uniquely coded with chip ID and additional informtaion.
Frangible Label	A thin delicate material which is extremely tamper evident as the material has very little strength and structural integrity so that if it is removed from a substrate it will fragment into tiny pierced