

PRODUCT COMPARISON CHART

Cards



PRODUCT NAME	Secure Mobile Device Sticker		Contactless ISO Cards					Clamshell Cards	Contactless Combo Cards			Contact based ISO Cards		Mifare SAM AV2
Application	Printable sticker designed to work on metal devices like smartphones for cashless payment or identification		Contactless cards to suit standard applications like access control or cashless payment. Highly robust and customizable.					Hard card with punch slot e.g. for access control	Contactless cards with multiple wireless or contact based technologies in one card for standard applications like access control or cashless payment. Highly robust and customizable.			Memory cards	Micro-controller cards	Glossy White cards with GSM-SAM punch
Frequency	13.56 MHz		125 kHz	13.56 MHz			860 - 960 MHz UHF	125 kHz	125 kHz / 13.56 MHz	13.56 MHz / 13.56 MHz	125 kHz / 13.56 MHz / UHF	N/A		N/A
Size	85.6x54x0.84 mm (ISO Card), 48x25x0.84 mm (Sticker)		85.6x54x0.76 mm (ISO Card)					85.7x53.9x1.7 mm	85.6x54x0.76 mm (ISO Card)			85.6x54x0.76 mm (ISO Card)		85.6x54x0.76 mm (ISO Card + SAM punch)
Color	White		White					White	White			White		White
Standards / Protocol Support	ISO 10373, ISO 7816-1, ISO 7810, ISO 14443	ISO 10373, ISO 7816-1, ISO 7810, ISO 15693	ISO 10373, ISO 7816-1	ISO 10373, ISO 7816-1, ISO 15693 (ATC only)	ISO 10373, ISO 7816-1, ISO 15693, ISO 18000-3	ISO 10373, ISO 7816-1, ISO 14443	ISO 10373, ISO 7816-1, EPC C1G2, ISO 18000-6	ISO 10373	ISO 10373, ISO 7816-1, ISO 14443, UHF EPC C1G2			ISO 7816-1/2/3	ISO 7816-1/2/3/4	ISO 7816-1/2/3/4, ISO 14443
Chip Type	Mifare 1K/4K, DESfire EV1-2K/4K/8K	I-Code SLIx	Unique, Q5, Titan, Hitag 1, Hitag 2, Hitag S, ATA5577	Legic: MIM 256 (MultiR), MIM1024 (MultiR), ATC 128/256/ 1024-MV	I-Code SLIx, I-Code SLIx-S	Mifare 1K, Mifare 4K, Mifare DESfire EV1 2K/4K/8K, Mifare UL, Legic ATC 512/2048/4096-MP, CD21 (Calypso)	Monza 4QT	Unique, Q5	Unique or Q5 or Hitag 2 + Mifare 1K or 4K	Legic Prime MIM256 or MIM 1024 + Mifare 1K	Combination of LF, HF and/or UHF chips on request possible	SLE5542, SLE5528, 24LCxxx series	NXP smartMX JCOP series, SLE66CX322 MultOS 4.0, EM TG97 IDCos	Mifare SAM-AV2
Memory *1)	1024 - 8192 byte RW	1024 bit RW	64 bit RO, 256 - 2048 bit RW	128 - 2048 bit RW	1024 bit RW, 2048 bit RW	64 - 8192 byte RW	128 bit EPC, 512 bit user memory	64 bit RO, 264 bit RW	64 bit RO, 256 - 4096 bit RW			1024 bit - 512 kByte	32-97 KB	81 KB
Anti-collision	Yes		Hitag S - Yes	ATC - Yes	Yes				Mifare - Yes			N/A		N/A
Operating Temperature*	-35°C to +50°C		PVC: -35° to +50° C, Composite: -40° to +70° C					-10°C to +50°C	PVC: -35° to +50° C, Composite: -40° to +70° C			-35°C to +50°C		-35°C to +50°C
Storage Temperature*	-35°C to +50°C		PVC: -35° to +50° C, Composite: -40° to +70° C					-10°C to +50°C	PVC: -35° to +50° C, Composite: -40° to +70° C			-35°C to +50°C		-35°C to +50°C
Thermal Shock*2)	-35°C to +80°C		-35°C to +80°C					-35°C to +50°C	-35°C to +80°C			-35°C to +80°C		-35°C to +80°C
Housing Material	PVC		PVC (other on request)					Shell: ABS, Cover foil: PVC	PVC (other on request)			PVC (other on request)		PVC (other on request)
Chemical and Environmental Resistances*	Water, IP68 (1m, 24 hr), Saltwater, Salt mist, Acetic Acid Water, Carbonated Sodium Water, Sugared Water, Fuel B, Ethylene Glycol, Artificial Perspiration, Humidity 95% at 50° - 24h		Water, IP68 (1m, 24 hr), Saltwater, Salt mist, Acetic Acid Water, Carbonated Sodium Water, Sugared Water, Fuel B, Ethylene Glycol, Artificial Perspiration, Humidity 95% at 50° - 24h					Identical to ISO card	Water, IP68 (1m, 24 hr), Saltwater, Salt mist, Acetic Acid Water, Carbonated Sodium Water, Sugared Water, Fuel B, Ethylene Glycol, Artificial Perspiration, Humidity 95% at 50° - 24h					
Mechanical Resistances*			Dynamic bending and torsion stress tested (4x250 bends)						Dynamic bending and torsion stress tested (4x250 bends)					
Customization options	Single side printing with various technologies, personalization		Artwork; encoding; laser engraving; magnetic stripe; other contactless-, contact- or memory-chips signature panel and optical security features. ATA5577 optional available in non-ISO thickness of 0.04 (1.1 mm) with higher read range than ISO card.					Double side printing with various technologies	Double side printing with various technologies, magnetic stripe, additional contact based smartcard or memory chip, punch mark, personalization			Double side printing with various technologies, personalization, alternative card material to PVC e.g. PETG		Double side printing with various technologies, personalization
Warranty *3)	1 Year		1 Year					1 Year	1 Year			1 Year		1 Year

* For further specification details, please see datasheets of the respective products.

Sokymat offers a wide range of printing, security and personalization services. Custom form factors or chip combinations are possible. Please contact a Sokymat sales representative for details.

*1) Unique (64 bit RO), Q5 (264 bit RW), Hitag 1 (2048 bit RW), Hitag 2 (256 bit RW), Hitag S (256 bit RW, 2048 bit RW), Titan (1024 bit RW)

I-Code SLIx-L (512 bit EEPROM, incl. 256 bit user memory), I-Code SLIx (1024 bit EEPROM, incl. 896 bit user memory), I-Code SLIx-S (2048 bit EEPROM, incl. 1280 bit user memory)

Mifare 1K (1024 byte EEPROM, incl. 768 byte user memory), Mifare 4k (4096 byte EEPROM, incl. 3440 byte user memory), Mifare UL (512 bit EEPROM incl. 384 bit user memory), Mifare ULC (1536 bit EEPROM)

Legic MIM 256 (256 bit EEPROM, 234 bit user memory), MIM1024 (1024 bit EEPROM, 1002 byte user memory)

Infineon SLE5542 (256 byte EEPROM), SLE5528 (1024 byte EEPROM), Microchip 24LCxxx (1kByte - 512 kByte EEPROM), Atmel AT88SC (1024 bit EEPROM)

NXP SmartMX JCOP (32 kByte EEPROM), Infineon SLE66CX322 (32 kByte EEPROM), EM TG97 (97 kByte EEPROM)

*2) Thermal shock: 50 cycles, 5 min soaking time, 20 sec transition. The card's surface may show slight deformation but cards remain functional.

*3) Warranty: Storage condition must not exceed specification for temperature, chemical, mechanical, electrical condition, storage from -25°C to +50°C, humidity 20% to 80%

PRODUCT COMPARISON CHART

Keyfobs & ID Bands



PRODUCT NAME	Bobsleigh Keyfob		Blueeye Keyfob		Tear Shape Keyfob			Epoxy Keyfob			Custom Keyfob	ID Band		
Application	Printable keyfob transponder designed to suit most standard applications for access control or time and attendance		Printable keyfob transponder designed to suit most standard applications for access control or time and attendance		Printable keyfob transponder designed to suit most standard applications for access control or time and attendance			Printable, engravable tag with high mechanical and thermal stability, suits most standard applications for access control or time and attendance			Keyfob in customer specific shape, e.g. for loyalty programs	Wrist band transponder designed especially for use in swimming pools, sauna, wellness areas etc.		
Frequency	125 kHz	13.56 MHz	125 kHz		125 kHz	13.56 MHz		125 kHz	13.56 Mhz		125 kHz or 13.56 Mhz	125 kHz	13.56 MHz	
Size	49.6x33.0x6.6 mm		47.9x28.6x7.5 mm		40x31x4.8 mm			45x30x1.6 mm			Custom	Strap: 241x16x1.5 mm, Housing: Ø25x4.4 mm		
Color	Transparent blue		Transparent blue		Black, Blue, Red			Black			Custom	Dark Blue (Pantone 541C)		
Standards / Protocol Support	ISO 10373, ISO 60529	ISO 10373, ISO 60529, ISO 14443	ISO 10373, ISO 60529		ISO 10373, ISO 60529	ISO 10373, ISO 60529	ISO 10373, ISO 60529, ISO 14443	ISO 10373, ISO 60529	ISO 10373, ISO 60529, ISO 15693, ISO 18000-3	ISO 10373, ISO 60529, ISO 14443	Depends on chip	ISO 10373, ISO 60529		ISO 10373, ISO 60529, ISO 14443
Chip Type	Unique, Q5, Hitag S	Mifare 1K, Mifare 4K	Unique, Q5, ATA55x7	Hitag S	Unique, Q5, Titan, Hitag 1, Hitag 2, ATA 55x7	Legic Prime MIM 256, MIM1024	Mifare 1K, Mifare DESfire EV1 2K	Unique, Q5, Titan, Hitag 1, Hitag 2, ATA55x7	I-code SLIx	Mifare 1K	Customer defined	Unique, Q5, Hitag S	Legic Prime MIM 256, MIM1024	Mifare 1K, Mifare 4K, Mifare DESfire EV1 2K, Mifare UL
Memory *1)	64 bit RO, 256 bit RW, 264 bit RW, 2048 bit RW	1024 byte RW, 4096 byte RW	64 bit RO, 264 bit RW	256 bit RW, 2048 bit RW	64 bit RO, 256 bit RW, 264 bit RW, 1024 bit RW, 2048 bit RW	256 bit RW, 1024 bit RW	1024 byte RW, 2048 byte RW	64 bit RO, 256 bit RW, 264 bit RW, 1024 bit RW, 2048 bit RW	1024 bit RW	1K Byte RW	Depends on chip	64 bit RO, 256 bit RW, 264 bit RW, 2048 bit RW	256 bit RW, 1024 bit RW	64 - 4096 byte RW
Anti-collision	Hitag S - Yes	Yes		Yes			Yes	Hitag S - Yes	Yes		Depends on chip	Hitag S - Yes		Yes
Operating Temperature*	-30°C to +80°C		-30°C to +80°C		-25°C to +50°C			-25°C to +85°C			Custom	-25°C to +50°C		
Storage Temperature*	-30°C to +80°C		-30°C to +80°C		-25°C to +80°C			-40°C to +95°C			Custom	-25°C to +50°C		
Thermal Shock*2)	-35°C to +80°C							-25 °C to + 100 °C			Custom	-20°C to +100°C		
Peak Temperature								+140°C (1x24h)			Custom	+100°C (1x24h)		
Housing Material	PC		PC		PC			Epoxy			Custom	Strap: TPE E, Housing: PC		
Chemical and Environmental Resistances*	Water, IP67 (1m, 1hr), Saltwater, Salt mist, Acetic Acid Water, Carbonated Sodium Water, Sugared Water, Fuel B, Ethylene Glycol, Artificial Perspiration		Water, IP67 (1m, 1hr), Saltwater, Salt mist, Acetic Acid Water, Carbonated Sodium Water, Sugared Water, Fuel B, Ethylene Glycol, Artificial Perspiration		Water, IP67 (1m, 1hr)			Water, IP67 (1m, 1hr), Mineral Oil, Ethanol, Petrol, Fuel			Custom	Water, IP68 (2m, 24hr), Chlorine (SIA385/1)		
Mechanical Resistances*	Drop test 1.8m (10x10 cycles)		Drop test 1.8m (10x10 cycles)		Drop test 1.8m (10x10 cycles), Axial/Radial Compression 500N			Drop test 1.8m (10x10 cycles)			Custom	84N with straight strap, 280N on closed bracelet		
Customization options	Printing on both sides with various technologies		Printing on both sides with various technologies		Single side printing with various technologies			Printing or laser engraving on both sides with various technologies			Custom	Printing or laser engraving on house and bracelet with various technologies		
Warranty *3)	1 Year		1 Year		1 Year			1 Year			1 Year	1 Year		

*For further specification details, please see datasheets of the respective products.

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*1) Unique (64 bit RO), Q5 (264 bit RW), Hitag 1 (2048 bit RW), Hitag 2 (256 bit RW), Hitag S (256 bit RW, 2048 bit RW), Titan (1024 bit RW)

I-Code SLIx-L (512 bit EEPROM, incl. 256 bit user memory), I-Code SLIx (1024 bit EEPROM, incl. 896 bit user memory), I-Code SLIx-S (2048 bit EEPROM, incl. 1280 bit user memory)

Mifare 1K (1024 byte EEPROM, incl. 768 byte user memory), Mifare 4k (4096 byte EEPROM, incl. 3440 byte user memory), Mifare UL (512 bit EEPROM incl. 384 bit user memory), Mifare ULC (1536 bit EEPROM)

Legic MIM 256 (256 bit EEPROM, 234 bit user memory), MIM1024 (1024 bit EEPROM, 1002 byte user memory)

Infineon SLE5542 (256 byte EEPROM), SLE5528 (1024 byte EEPROM), Microchip 24LCxx (1kByte - 512 kByte EEPROM), Atmel AT88SC (1024 bit EEPROM)

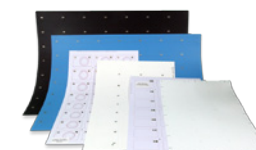
NP SmartMX JCOF (32 kByte EEPROM), Infineon SLE66CX322 (32 kByte EEPROM), EM TG97 (97 kByte EEPROM)

*2) Thermal shock: 50 cycles, 5 min soaking time, 20 sec transition

*3) Warranty: Storage condition must not exceed specification for temperature, chemical, mechanical, electrical condition, storage from -25°C to +50°C, humidity 20% to 80%

PRODUCT COMPARISON CHART

Embeddable RFID



PRODUCT NAME	Disc Sticker	Mifare Coin	Mifare Disc	Mifare Disc		Prelaminates					Overlays
Application	Printable sticker for LF applications	Mifare proximity coin for embedding	Mifare proximity disc for embedding	Clear disc tag for custom housing e.g. key fob		RFID inlays for contactless ISO cards (single or dual interface - also for financial applications)					Magstripe, Hologram or Thermo-rewritable foils for card production
Frequency	125 kHz	13.56 MHz	13.56 MHz	125 kHz	13.56 MHz	125 kHz	13.56 MHz		125 kHz / 13.56 MHz / UHF		n/a
Size	Ø25x1.0 mm	Ø17.8x1.7 mm	Ø22x0.95 mm	Ø20, 22 or 30x0.6 mm	Ø25 mm	Custom					Custom
Color	White	Black	Yellow	Transparent		White					Transparent
Standards / Protocol Support	ISO 10373	ISO 10373, ISO 60529, ISO 14443	ISO 10373, ISO 60529, ISO 14443					ISO 14443	ISO 10373, ISO 7816-1, ISO 15693, ISO 18000-3	depends on chips	HiCo, LoCo for Magstripe
Chip Type	Unique, Q5	Mifare 1K	Mifare 1K	Hitag S, Unique, Q5	Mifare 1K	Q5, EM4305, EM4102, ATA5577	Legic Prime MIM256, MIM1024, Legic Advant Family	Mifare 1K, Mifare 4K, Mifare DESfire EV1 2K/4K/8K, Mifare UL, ULC	I-Code SLIx, I-Code SLIx-S, EM4233	combination of LF, HF and/or UHF chips on request possible	n/a
Memory *1)	64 bit RO, 264 bit RW	1024 bit RW	1024 bit RW	64 bit RO, 256 - 2048 bit RW	1024 kByte RW	264 bit RW, 512 bit RW	256 bit RW, 1024 bit RW	64 - 8192 byte RW	1024 bit RW, 2048 bit RW	depends on chips	n/a
Anti-collision		Yes	Yes	Hitag S - Yes	Yes			Yes			n/a
Operating Temperature*	-10°C to +50°C	-30°C to +70°C	-30°C to +70°C	-20°C to +60°C		Depends on material					
Storage Temperature*	-10°C to +50°C	-40°C to +70°C	-25°C to +120°C	-20°C to +60°C		Depends on material					
Housing Material	PVC with 3M adhesive on one side	Epoxy PT365	FR4 + Epoxy Globtop	Polyethylen + Polyester		PVC, PETG, PC, synthetic paper, Teslin®					
Chemical and Environmental Resistances*		Water, IP67 (1m, 1hr)		Depends on finished product		Depends on material					
Mechanical Resistances*	Drop test 1.8m (10x10 cycles), Vibration IEC 68.2.6, Shock IEC 68.2.29	Drop test 1.8m (10x10 cycles), Vibration IEC 68.2.6, Shock IEC 68.2.29	Drop test 1.8m (10x10 cycles), Vibration IEC 68.2.6, Shock IEC 68.2.29	Depends on finished product		Depends on material					
Customization options	Single side printing with various technologies					Other chips upon request, custom size, format, material and color					Custom holograms, magstripe colors, printed magstripes, TRW colors black or blue
Warranty *2)	1 Year										

Finding what you need

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* For further specification details, please see datasheets of the respective products.

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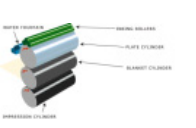
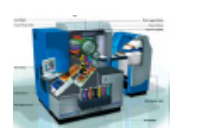
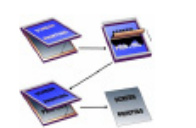







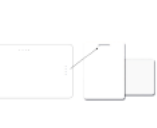
*1) Unique (64 bit RO), Q5 (264 bit RW), EM4305 (512 bit RW)

Mifare 1K (1024 byte EEPROM, incl. 768 byte user memory), Mifare 4k (4096 byte EEPROM, incl. 3440 byte user memory)

*2) Warranty: Storage condition must not exceed specification for temperature, chemical, mechanical, electrical condition, storage from -25°C to + 50°C, humidity 20% to 80%

PRODUCT COMPARISON CHART

Printing Options









OPTION NAME*	PRINTING BEFORE LAMINATION			PRINTING AFTER LAMINATION				MARKING			
	Offset Printing	Digital Offset Printing	Silkscreen Printing	Single Card Offset	Single Card Silkscreen	Direct Thermo Transfer	Thermo Retransfer Printing	Inkjet Code Printing	Laser Engraving	Barcode / QR-Code	Slot Punch Marks
Image											
Description	The desired print image is burned onto a plate and is then transferred (or offset) from the plate to a rubber blanket, and then to the printing surface. The image to be printed gets ink from ink rollers, while the non printing area attracts a film of water, keeping the non printing areas ink-free.	Digital printing eliminates many of the mechanical steps required for conventional printing, (making films or color proofs, manually stripping the pieces together and making plates). Typically used for volumes up to 50,000, before Offset Printing becomes economical.	A metal frame with fine polyester mesh makes up the screen then ink is poured into the frame and forced through the screen. Can be both manually and machine operated. Also used to generate signature panels or scratch-off printing.	The desired print image is burned onto a plate and is then transferred (or offset) from the plate to a rubber blanket, and then to the surface of the cards.	A metal frame with fine polyester mesh makes up the screen then ink is poured into the frame and forced through the screen. Can be both manually and machine operated.	Printing directly on surface of card. Images are printed by heating a print ribbon beneath a thermal printhead, resulting in the transfer of color from the ribbon to a card.	Image is printed mirrored to an overlay, then applied with heat onto the card via High Definition Printing Film developed by Sokymat-FARGO.	Code to print can be: Just a number or text (same on each card), Incremental number: Chip UID (decimal, hexa or other format), Specific algorithm based on the chip UID (algorithm can be provided by the customer or developed by Sokymat).	Laser cuts into card or keyfob surface.	Barcodes or QR codes in various formats can be printed.	Slot punch marks (small dots) can be printed on the cards: either vertically, horizontally or both to indicate where it is safe to punch a hole without damaging chips or antenna.
Advantages	Very high resolution - 3.600 dpi Very accurate printing High volume Pantone, CMYK colors can be printed	High resolution - 1.050 dpi Very accurate printing For high and low volume orders Personalization of individual data per card is possible	Rich, bold, and brilliant colors Pantone, CMYK colors Metallic colors	Pantone, CMYK Layout can be protected by a varnish finish Cost-efficient for small as well as mass production	Rich, bold, and brilliant colors Pantone, CMYK colors Possible to print: Metallic colors Glossy lacquer Matte lacquer Irodin lacquer Glitter lacquer	Quick and flexible production Hologram foils can be added after printing Can be used for personalization Can be wiped off using chemicals (rewrite)	Quick and flexible production Easy changing of layout Can be used for personalization Can print on uneven surfaces	Quick, cheap and flexible production	Permanently engraved into card or keyfob surface. Mostly used for numbers. Logos and pictures possible		Can be printed before lamination (offset) or after lamination (offset, inkjet)
Disadvantages	Requires films or CTP Limited suitability for metallic colors (but can be combined with silk screen printing)	Printing is less shiny than classical offset	Not suitable for thin lines or detailed printing Not possible to print color gradients Film required	Heavy wear & tear Cards including varnish finish cannot be personalized using thermal transfer print (e.g. serial number)	Not suitable for thin lines or detailed printing Not possible to print color gradients Film required	Limited printing quality (300 dpi) Limited to low volumes No protection against abrasion (wear & tear) Absolute flat surface needed	Limited printing quality (300 dpi) Limited to low volumes Limited protection against abrasion Bending of card with single side printing	Not as resistant as laser engraving	Only black or shades of gray possible. Mostly used for numbers. Not suitable to show complex layouts		N/A

*) Frequently used default options are Offset Printing, Single Card Offset and Inkjet Code Printing.

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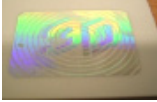







Other Card Options

COMMON OPTIONS								
OPTION NAME	Outer Form Punching	Slot Punch	SIM Punch	Magstripe	Embossing	Signature Panel	Scratch-off Panel	Thermo rewritable foil
Image								
Description	Cards can be provided in various standard sizes or even in custom shapes	Slot punch either vertically, horizontally or both to insert badge holders without damaging the antenna	Contact cards like SmartMX (JCOP) can be punched to enable break out of the chip in standard GSM SIM format. Sim punch is included for Mifare SAM AV2.	Optional Magnetic Stripe	Metal letters hit the card with high speed and force which distresses the card surface. Raised letters can then be tipped with a metal foil.	Enables card user to write on the card using a common pen	Reveals a text after being scratched off used for prepaid cards etc.	Re-writable cards are made of PVC and have a transparent thermo re-write (TRW) foil adhered onto the card. This foil can be erased and re-written by using clearjet printers up to 300 times. Often used for returnable tickets e.g. in Ski resorts.
Options	CR 80 - ISO card CR90 - US driver's license format CR79 - smaller than ISO CR100 - military format other, even custom irregular shapes possible	Optionally also available as punch marks only to be punched by customer on demand	Allows shipping SIM cards in ISO format, optionally printed and then enabling the end-user to break out the chip for use in his mobile device like smartphone etc.	LOCo, HiCo, Watermark, Custom magstripe color or encoding	Mainly used for credit cards. Cards must be designed with smaller shape antennas			Possible to cover only parts of the card with the TRW foil. TRW foils are available with a blue or black reaction color

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Security Options

SECURITY OPTIONS									
OPTION NAME	Infrared	Hologram	Guilloche	Microtext	UV Print	Rainbow Printing	Special Inks	Relief Structures	MLI/CLI
Image									
Description	Data is stored as binary information: black areas are printed before or after lamination by offset printing Counterfeit-proof Requires very accurate printing	Various types of holographic images are available	A guilloche is an ornamental pattern formed of two or more curved bands that interlace to repeat a circular design made with a geometric lathe	A microprint is a text which is visually identified as a line. This text can only be recognized when using a magnifying-glass.	Invisible ink which can only be seen under UV (Ultra Violet) light	The colors gradually change their shade from one color to the next. Color copiers cannot reproduce this effects	Inks with special properties can be used as added copy protection feature e.g. Fluorescent, metallic, pearlescent, thermo-reactive, optical variable inks	Can be made tactile / non-tactile in custom designs	Multiple Laser Image / Changeable Laser Image - changes image depending on the angle it is viewed
Options		Possibility to increase the security by getting a tailor-made hologram, a kinogram or a Fargo VeriMark or HoloMark	Pattern can only be produced by typographic way using offset or digital offset printing - Copy safe						

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