Ink & Adhesives

INK

TYPE	RESINS	APPLICATION
UNIVURE A	Vinyl-Urethane	All Film , Lamination , Retort Usage
UNIVURE NT	Special Modified Vinyl-Urethane	All Film , Lamination , Retort Usage
MULTIVURE	Vinyl-Urethane	All Film , Lamination , Boiling Usage
SNACKVURE NT.	Special Modified Vinyl-Urethane	All Film , Lamination , Boiling Usage
TAF	Chlorinated Polypropylene	BOPP , Lamination
CVL	Vinyl-Urethane	All Film , Lamination
SBL DG	Vinyl-Acrylic	Shrinkage Film
CAM SS	Nitrocellulose-Polyamide	MST Cellophane, Paper,Pearl Film
NPD	Nitrocellulose-Polyamide	OPP, PP, PE, HDPE, LDPE, Surface
NEW PACK	Nitrocellulose-Polyamide	OPP, PP, PE, HDPE, LDPE, Surface
BRIGHTON D	Nitrocellulose-Polyamide	Al-Foil, Paper
CLS	Nitrocellulose	Al-Foil, Paper
PAL OIL	Nitrocellulose-Polyamide	OPP, PP, PE, Special Oil Properties
CELLACOATES	Nitrocellulose	Paper, Alcohol based

Application of DICDRY LX-series

Application	Snack	Transparent		Al-Component				Characteristic
	General Purpose	Boil	Retort	General purpose		Retort *1		
					Acid	Outside	Inside	
LX-401A/SP60=1/1 LX-405A/SI75=1/1 LX-420/SP75=1/1	■							Wettability, Fast curing
LX-830/KW75=10/1.5	■			■				Wide range use
LX-820/KW75=10/1	■			■				Content resistance
LX-703VL/KR-90=15/1		■	■	■				Aliphatic, Wide range use
LX-500/KW75=10/1		■		■		■		Heat & Content resistance
LX-500/KO55= 9/1			■	■	■		*2	Aliphatic
LX-963/KW75=10/1		■		■		■		Heat & Content resistance
LX-963/KO40= 8/1			■	■	■		*2	Aliphatic

Note *1 Please test in advance for retort usage, especially when contents contains vinegar or film combination is PET/NYL/AL/CPP

*2 FDA approval for AL retort pouch (CFR21 §177.1390). Others accommodate to §175.105.

■ Excellent ☐ Good

Color & Comfort by Chemistry

Application of DICDRY SF/NS series

Product name	Type	Working Temp	General purpose		Clear composition		AL composition	
			Snack	PET/ALVM	Boil	Retort	Retort	General
2K-SF-900A /HA-900B=2/1	Aliphatic ester	80-90℃		* 2		* 1		
2K-SF-380A /HA-380B=2/1	Aromatic ether	70-80℃						
NS-4000A /HA-400B=2/1	Aromatic esterether	55-60℃		* 2				
NS-2100A /HA-105B=5/2	Aromatic esterether	40-45℃						
NS-2100A /HA-210B=5/4	Aromatic ether	40-45℃						

(Note) * 1 Vinegar resistance is very poor.
* 2 Appearance is inferior to solvent type adhesive

DICDRY LX-510 / KR-90

- The most suitable for refill package.
  - Hydrogen peroxide type bleach.
  - Alkaline detergent.

DICDRY LX-520 / KZ-40

- The most suitable for retort of vinegar resistance and Chinese foods.

DICDRY LX-719 / KR-90

- Suitable for boiling including air such as raw type noodles.
- The coating film has elasticity and follows expansion and shrinkage of a pouch.

SunChemical®

a member of the DIC group

- Direct Food Contact Ink
- Brand Protection

Food Contact Inks

- FDA 175.300 compliant
- Water based
- Acrylic resin / emulsion blends
- All products fully 175.300 compliant
- Pigments are food grade standard
- Results from BIBRA Toxicological and Migration results available
- Flexo or Gravure
- Alcohol / water reducible
- Lacquer used to increase resistance

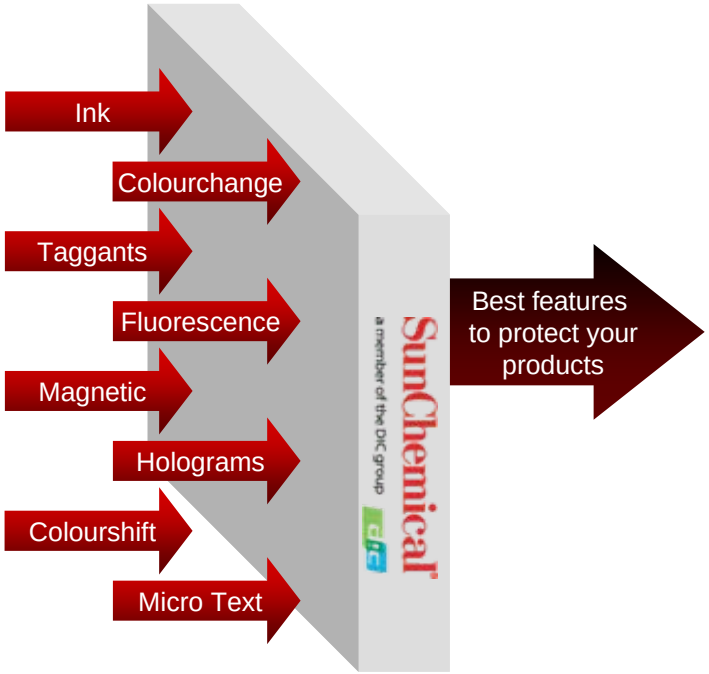
SunChemical BRAND PROTECTION

Expertise

We offer a range of anti-counterfeit and authentication solutions to make items more difficult to copy and enable brand owners and government officials to check if products are genuine or fake

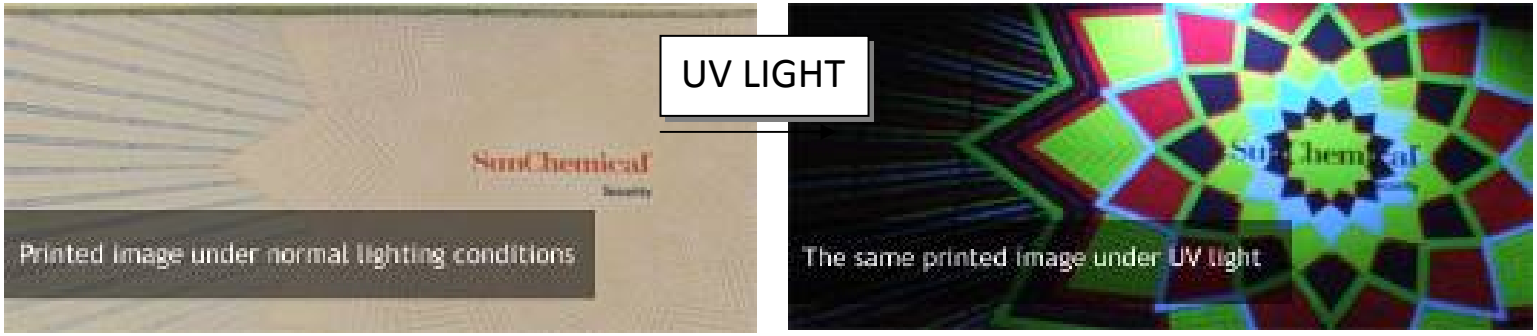
Sun Chemical Security is the only security provider in the world with the following integrated, in-house capabilities:

- Pigment design and manufacture
- Resin design and manufacture
- Ink formulation, production and sales
- Taggant design and manufacture
- Reader and verifier design
- Forensic capabilities



A taggant (or chemical marker) is basically a pigment or dye that provides a means to test authenticity

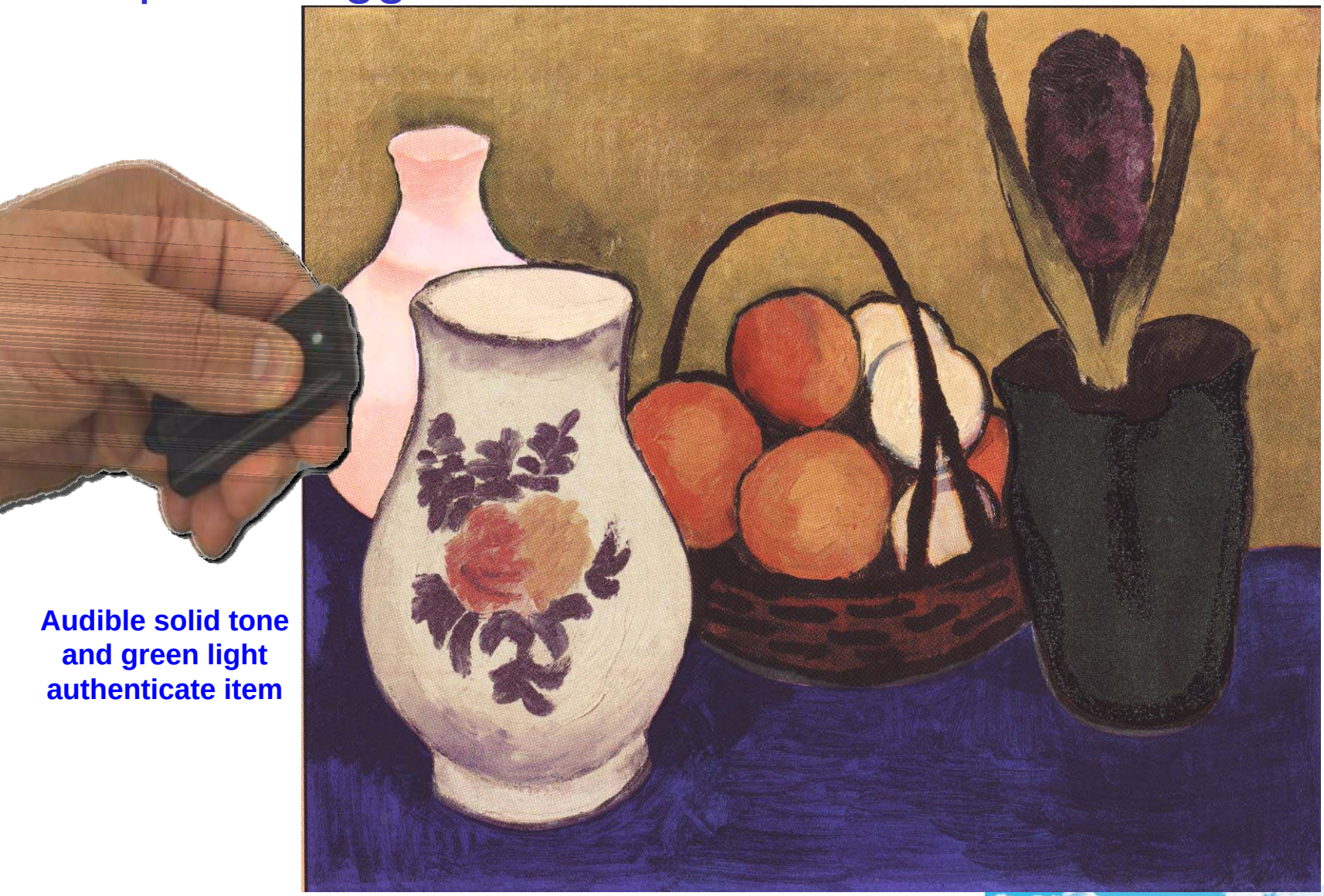
Simple UV fluorescent Taggant



Although UV inks do provide a basic level of security, the wide availability of the technology greatly reduces their effectiveness against serious counterfeiters

Introducing IR technology is the next level security solution

Apollo Taggant/Reader - How it Works



Audible solid tone and green light authenticate item

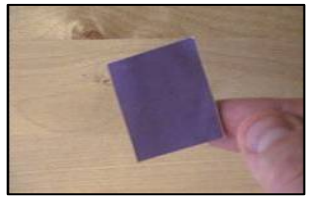
DIC Corporation

Covert Hidden Indicia®

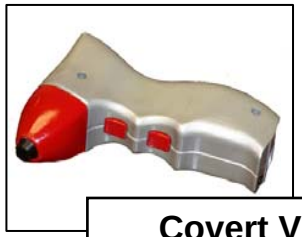
Covert IR responsive Inks

Covert UV fluorescing inks

Semi-covert Metachromic inks



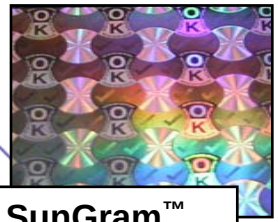
Overt SunShift™ color shifting inks



Covert Verigard™ authentication – yes/no

Covert non line of site authentication

Covert forensic authentication



Overt SunGram™ machine readable holograms/foils

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Thank You!

Color & Comfort by Chemistry

SunChemical®

a member of the DIC group

working for you.