Continuous Inkjet Inks

V4257

Description

V4257 is an invisible fluorescent MIPK ink qualified for use in Videojet continuous inkjet (CIJ) printers. This ink is ideal for use on paperboard, plastic, and metal substrates for covert coding. It is specially designed to be invisible to the unaided eye and become fluorescent blue when activated by ultraviolet (UV) light.

Benefits

- iQMark™ more sustainable ink
  - Non CMR's (carcinogens, mutagens, reproductive Toxins)
  - No drug precursors, no MEK, no acetone, and no methanol
  - Compliant with Japan ISHL Class 2 Organic Solvent List
  - Lower make-up consumption, up to 40% less than MEK based inks
  - Less volatile organic emission (VOC), up to 40% less than MEK based products
  - Less volatile organic chemical exposure, up to 40% less than MEK based products
  - Less plastic and cardboard waste, up to 30% less than MEK based products
- Fluoresces @433nm when excited by UV light @365nm
- Survives pasteurization (74°C for 30min) on metal substrates without blushing
- Survives retort (121°C for 30min) on metal substrates
- Resistant to acids, bases, Mil Spec Solvent C, mineral spirits, and oils

Applications

V4257 ink delivers excellent adhesion on acrylonitrile butadiene styrene (ABS), polystyrene, steel, and paper board. This ink is used to apply production tracking codes to primary containers that are later filled with product. End products are sometimes retorted, pasteurized, or heat processed after filling. V4257 is also used to unobtrusively code and track products though the distribution chain. It is especially practical where the available package area is limited. No MEK/Low VOC (V930) and no Drug Precursor (V940) cleaners are available.

Adhesion

	Average	Good	Excellent
Plastic		✓	
Metal			✓
Glass	✓		

Dry Time (seconds)

0	1	2	3	4	5
	✓				

Dry Heat Resistance (maximum)

	100	200	300	400	500
°C	✓				
°F	212	392	572	752	932

Light Resistance

Days	Weeks	Months
✓		

Chemical Resistance

Water	Mineral Spirits	Oil
✓	✓	✓

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Specifications

Product	Product Type	Color	Solvent Type	Container Size	Shelf life
V4257	Ink	Colorless	MIPK	750 ml (-D) 1000 ml (-L)	18 months*
V7257	Make-up	Colorless to pale yellow	MIPK	750 ml (-D) 1000 ml (-L)	24 months*
V916	Cleaner	Colorless to pale yellow	MIPK	1 liter (-Q)	30 months*
V930	Cleaner	Colorless to pale yellow	Acetone/Ethanol	1 liter (-Q)	30 months*
V940	Cleaner	Colorless to pale yellow	Ethyl Acetate	1 liter (-Q)	30 months*

Storage *Store between 2°C and 35°C.

Printer Parameters

Qualified Models	Operating Temperature	Operating Humidity	Nozzle Compatibility
1580, 1860, 1880, 1880 UHS***	5-45 ºC	10-90%	60µm, 70µm

*** Dry air kit required for temperatures >35 °C and humidity >50%. Batches made after 24178xxxxDE / 24111xxxxEG.

Certifications

iQMark™: V4257 ink was responsibly designed and manufactured to maximize contrast, adhesion, and uptime while meeting safety, environmental, and regulatory requirements. Every batch is tested to ensure it meets strict quality control specifications. V4257 ink does not contain MEK, Acetone, Methanol, major allergens, animal based raw materials, nor organisms, genetically modified or not. Up to 40% less make-up usage as compared to V4259 MEK ink, depending on temperature and humidity. Compliant with Japan ISHL Class 2 Organic Solvent List. No European Printing Ink Association (EuPIA) Exclusion List materials. For information refer to Knowledge Articles 1148, 1190, and 1152.**

Food Packaging: V4257 ink may be used on the non-food contact side of food packaging. The packaging must provide a barrier between the ink and the food. When used in this manner, the inks are in compliance per 21 CFR 170.3(e)(1), Regulation (EC) No. 10/2011, and Regulation (EC) No. 2023/2006. For information, refer to Knowledge Article 7921.**

Heavy Metals: V4257 ink meets the requirements of CONEG model legislation including 94/62/EC. For information, refer to Knowledge Article 1153.**

RoHS: V4257 ink meets the requirements of the RoHS 2 Directive 2011/65/EU and Directive (EU) 2015/863. For information, refer to Knowledge Article 1159.**

REACH: V4257 ink is in compliance with EU Regulation (EC) No. 1907/2006 as amended. For information, refer to Knowledge Article 1156.**

Halogens: V4257 ink meets the International Electrotechnical Commission (IEC) definition of Halogen-Free. For information, refer to Knowledge Article 7920.**

**Environmental, Health, Safety, and Regulatory information can change without notice, consult the current Safety Data Sheet (SDS) which is available on the Videojet website. Knowledge Articles are available by calling or emailing Videojet.

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