



# V4259M



## Description

V4259M is an invisible fluorescent variant of SigNature® molecular ink. Delivered with a Videojet 1860M printer, V4259M transforms the inkjet code into a comprehensive, covert supply chain certification solution. This ink is applicable to the same wide range of substrates as its overt, black molecular ink counterpart (V4221M), and fluoresces blue under ultraviolet light. For applications requiring an invisible security option to track and secure products beyond traditional overt product marking, V4259M can be used alone or in conjunction with V4221M. Unique to each customer, SigNature molecular ink is created with the addition of a unique, secure molecular tag. These tags facilitate traceability of products and packaging, enabling such claims as the forensic certification of origin, authenticity, provenance, quality, ethics, integrity, or sustainability.

## Benefits

- Fluoresces @433nm when excited by UV light @365nm
- Unique, secure, and durable tag
- Forensic-level verification
- Survives pasteurization (65°C hot water bath) on metal substrates without blushing
- Survives retort (121°C steam heat) on metal substrates without blushing
- Resistant to acids, bases, Mil Spec Solvent C, mineral spirits, and oils
- No European Printing Ink Association (EuPIA) Exclusion List materials
- No CMRs (Carcinogens, Mutagens, Reproductive Toxins)

## Applications

Typically used by high-speed (3000/min) can/bottle/package manufacturers to apply production tracking codes to containers that are later sold to and filled by food packagers. End products are sometimes retorted, pasteurized, or heat processed after filling. Suitable for reliable 2-D codes on dark color substrates.

This ink is also used as a means to unobtrusively code and track products through the supply chain. Especially practical where the available package/label area is limited.

It delivers excellent adhesion on acrylonitrile butadiene styrene (ABS), polystyrene, steel, and paper board.

No MEK/Low VOC (V930) and no Drug Precursor (V940) cleaners are available.

## The CertainT® Solution

Applied DNA's CertainT solution features the combination of bio and information technologies, creating sound, secure and transparent supply and distribution environments. Through the use of sophisticated TAG, TEST and TRACK tools, verification of product integrity is made possible with absolute certainty.



TAG products and packaging.



TEST to authenticate at any point along the supply chain.



TRACK to collect chain of custody data for traceability.



learn more at [adnas.com/inkjet](http://adnas.com/inkjet) or [videojet.com/SigNatureInk](http://videojet.com/SigNatureInk)

# V4259M



## Specifications

Product	Product Type	Color	Solvent Type	Container Size	Shelf life
V4259M	Ink	Colorless	MEK	1000 ml (-L)	18 months*
V7201M	Make-up	Colorless to pale yellow	MEK	1000 ml (-L)	24 months*
V901	Cleaner	Colorless to pale yellow	MEK	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
1860M	5-45°C	10-90%	60µm, 70µm

## Certifications and Approvals

**Heavy Metals:** V4259M ink meets the requirements of CONEG model legislation including 94/62/EC. For more information, refer to Knowledge Article 1153.\*

**RoHS/WEEE:** V4259M ink meets the requirements of the RoHS 2 Directive 2011/65/EU and Directive (EU) 2015/863. For more information, refer to Knowledge Article 1159.\*

**REACH:** V4259M ink is in compliance with EU Regulation (EC) No. 1907/2006 as amended. For more information, refer to Knowledge Article 1156.\*

**Halogens:** V4259M ink meets the International Electrotechnical Commission (IEC) definition of Halogen -Free. For more information, refer to Knowledge Article 7920.\*

**Food Packaging:** V4259M 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 more information, refer to Knowledge Article 7921.\*

**Other:** V4259M ink does not contain major allergens, animal based raw materials, nor organisms, genetically modified or not. For more information refer to Knowledge Articles 1148, 1190, and 1152.\*

\*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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