



1000 Line Inks

# V459

## Description

V459 is an Invisible Fluorescent general purpose MEK ink qualified for use in the Videojet 1000 Line of continuous inkjet (CIJ) printers. This ink is ideal for use in high-speed applications such as 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

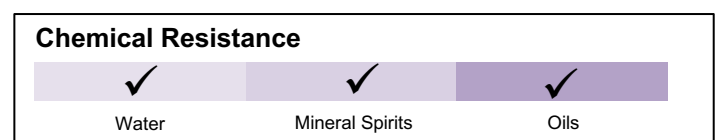
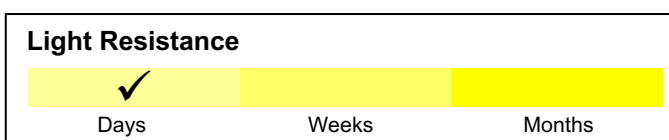
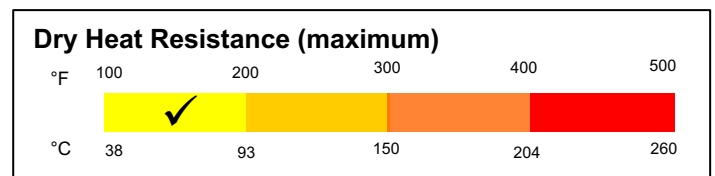
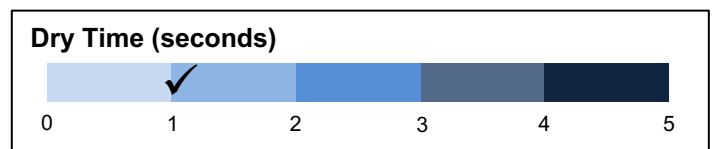
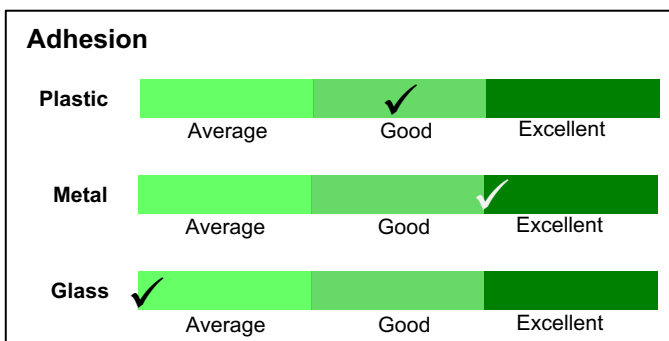
- Fluoresces @433nm when excited by UV light @365nm
- Survives pasteurization (65°C hot water bath) on metal substrates without blushing
- Survives retort (121°C steam heat) on metal substrates without blushing
- Resistant to acids, bases, Mil Spec Solvent C, mineral spirits, and oils

## Applications

This ink is 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. This ink is suitable for reliable 2D codes on dark color substrates.

V459 is also used as a means to unobtrusively code and track products through the supply chain. It is especially practical where the available package/label area is limited. It delivers excellent adhesion on acrylonitrile butadiene styrene (ABS), polystyrene, steel, and paper board.

Non-MEK low VOC (V930) and non-MEK no Drug Precursor (V940) alternative cleaners are available.



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### Specifications

Product	Product Type	Color	Solvent Type	Container Size	Shelf life
V459	Ink	Black	MEK	750 ml (-D)	18 months*
V701	Make-up	Colorless to pale yellow	MEK	750 ml (-D), 5 L (-K)	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
12X0, 15X0, 16X0, 1610DH	5-45°C	10-90%	60µm, 70µm

### Certifications and Approvals

**iQMark™:** V459 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.

**Heavy Metals:** V459 ink meets the requirements of CONEG model legislation including 94/62/EC. For more information, refer to Knowledge Article 1153.\*\*

**RoHS:** V459 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:** V459 ink is in compliance with EU Regulation (EC) No. 1907/2006 as amended. For more information, refer to Knowledge Article 1156.\*\*

**Halogens:** V459 ink meets the International Electrotechnical Commission (IEC) definition of Halogen-Free. For more information, refer to Knowledge Article 7920.\*\*

**Food Packaging:** V459 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:** V459 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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