



Continuous Inkjet Inks

V4278

Description

V4278 is a thermochromic red MPK/Ethanol ink with lower make-up consumption than typical MEK-based inks such as Videojet V4271. Similar to V4271 and V4276 inks, it was designed for use in high-speed food canning applications where retort evidence is desired. It is formulated to change color from **DARK RED** to **BRIGHT RED** when cooked with steam at high temperatures, and is qualified for use in Videojet continuous inkjet (CIJ) printers.

Benefits

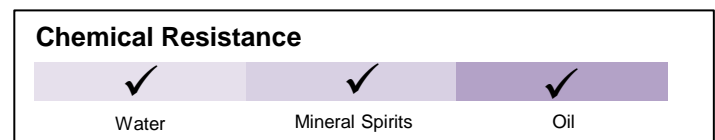
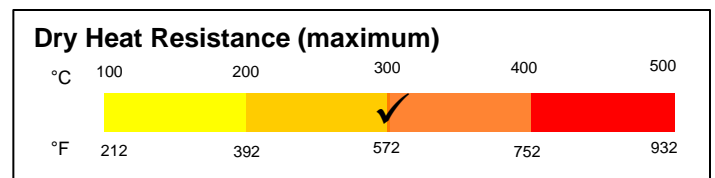
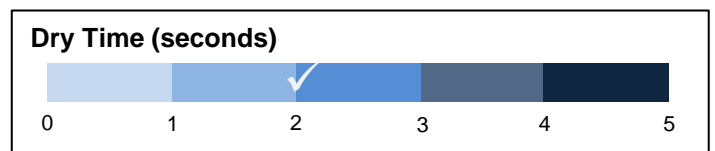
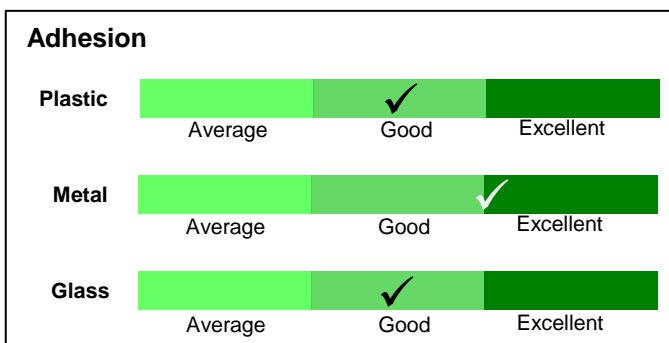
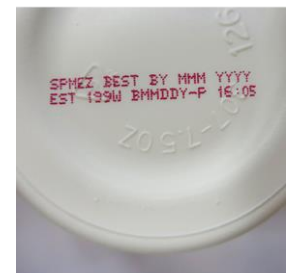
- iQMark™ Safer and more sustainable ink offering:
 - No MEK, no acetone, no methanol, no drug precursors
 - Not CMR (Carcinogen, Mutagen, Reproductive Toxin)
 - Meets Japan Printing Ink Manufacturing Association guidelines
 - Up to 50% less make-up consumption than V4271 ink
 - Less plastic and cardboard waste
 - Lower VOC emissions and fewer printer touches
- Resistant to acids, bases, Mil Spec Solvent C, mineral spirits, and oils
- Changes color during steam exposure, indicating the container was processed
- Chase conversion compatible with Videojet V4276 thermochromic red ink; no flush required
- Ideal successor for 16-8100, 16-8620, 16-8630, 16-8670, 201-0001-666, and V476 legacy inks

Applications

V4278 ink is ideal for coding and marking food containers prior to the retort processes, which is used to preserve vegetables, beans, fruit, soup, sauces, baby food, meat/fish, ready-to-eat meals, and pet food.

V4278 delivers good adhesion on a wide variety of substrates, including aluminum, steel, glass, nylon, polyester, polystyrene, polyvinylchloride, polycarbonate, acrylonitrile butadiene styrene, and paper board.

A no MEK/low VOC (V930) cleaner is available.



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Specifications

Product	Product Type	Color	Solvent Type	Container Size	Shelf life
V4278	Ink	Dark Red	Pentanone/Ethanol	750 ml (-D) 1000 ml (-L)	12 months*
V7278	Make-up	Colorless to pale yellow	Pentanone/Ethanol	750 ml (-D) 1000 ml (-L)	24 months*
V909	Cleaner	Colorless to pale yellow	Pentanone/Ethanol	1 liter (-Q)	30 months*
V930	Cleaner	Colorless to pale yellow	Acetone/Ethanol	1 liter (-Q)	30 months*

Storage

*Store between between 2°C and 35°C.

Printer Parameters

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

Certifications and Approvals –

iQMark™: V4278 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. V4278 ink does not contain MEK, methanol, acetone, drug precursors, phthalates, polycyclic aromatic hydrocarbons, mineral oil, organotin compounds, halogenated hydrocarbons, photoinitiators, bisphenol A (BPA), major allergens, animal based raw materials, nor organisms, genetically modified or not. For information, refer to Knowledge Articles 15065, 14647, and 14634.**

Product Packaging: V4278 ink, make-up, and cleaners are shipped in sustainably forested cardboard boxes. Ink and make-up cartridge components and cleaner bottles are recyclable. For information, refer to Knowledge Articles 18090 and 14286.**

Food Packaging: V4278 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 ink is 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 Articles 14389 and 17977.**

Heavy Metals: V4278 ink meets the requirements of CONEG model legislation including 94/62/EC. For information, refer to Knowledge Article 14629.**

RoHS: V4278 ink meets the requirements of the RoHS 2 Directive 2011/65/EU and Directive (EU) 2015/863. For information, refer to Knowledge Article 14656.**

REACH: V4278 ink is in compliance with EU Regulation (EC) No. 1907/2006 as amended. For information, refer to Knowledge Article 14655.**

Halogens: V4278 ink meets the International Electrotechnical Commission (IEC) definition of Halogen-Free. For information, refer to Knowledge Article 14375.**

Japan: V4278 ink meets the Japan Printing Ink Manufacturing Association guidelines. For information, refer to Knowledge Article 17886.**

**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.

Order supplies shop.videojet.com

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