Continuous Inkjet Inks

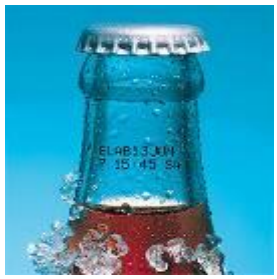
V4220

Description

V4220 is a Returnable Glass Bottling (RGB) black MEK ink qualified for use in Videojet continuous inkjet (CIJ) printers. This ink is ideal for use in high-speed bottling where codes need to withstand the specific conditions that returnable bottles are exposed to in the production, distribution, and point of sale processes.

Benefits

- Penetrates and resistant to thin layers of condensation
- Survives pasteurization, retort process, and ice baths
- Removable with hot caustic wash process
- Resistant to acids, mineral spirits, oils, alcohol, Mil Spec Solvent C, and gasoline
- Replaces 16-8530 and 16-8540 legacy ink formulas



Applications

This ink is used for coding and marking returnable glass bottles used in the beverage industry. These bottles are returned from the marketplace, cleaned in a caustic wash process, and refilled shortly thereafter with cold beverages. The bottle surfaces are typically wet, due to condensation from hot, humid environments. Excessive amounts of water must be removed using an air-knife or blow off system for good print quality and adhesion.

V4220 delivers excellent adhesion to a wide variety of other substrates including: acrylonitrile butadiene styrene (ABS), aluminum, polystyrene, polyvinylchloride (PVC), polycarbonate, polyester, steel, and nylon.

Adhesion

	Average	Good	Excellent
Plastic		✓	
Metal			✓
Glass			✓

Dry Time (seconds)

0	1	2	3	4	5
	✓				

Dry Heat Resistance (maximum)

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

✓ at 300 °C / 572 °F

Light Resistance

Days	Weeks	Months
	✓	

Chemical Resistance

Water, Aq Solns	Mineral Spirits	Oil
✓	✓	✓

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Specifications

Product	Product Type	Color	Solvent Type	Container Size	Shelf life
V4220	Ink	Black	MEK	750 ml (-D) 1000 ml (-L)	12 months*
V7223	Make-up	Colorless to pale yellow	MEK	750 ml (-D) 1000 ml (-L)	24 months*
V920	Cleaner	Colorless to pale yellow	MEK	1 liter (-Q)	30 months*

Storage *Store between 2°C and 35°C (35°F and 95°F).

Printer Parameters

Qualified Models	Operating Temperature	Operating Humidity	Nozzle Compatibility
1280 (s/w hmly-70014.xp-88957 or later), 1580*, 1860, 1880*	10-50°C	10-90%	60µm, 70µm

**Software SAR 21312001 Clean Stop (+20s) and Clean Start ("Drooling Fix") is required.*

Certifications and Approvals

iQMark™: V4220 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: V4220 ink meets the requirements of CONEG model legislation including 94/62/EC. For more information, refer to Knowledge Article 1153.**

RoHS: V4220 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: V4220 ink is in compliance with EU Regulation (EC) No. 1907/2006 as amended. For more information, refer to Knowledge Article 1156.**

Halogens: V4220 ink meets the International Electrotechnical Commission (IEC) definition of Halogen-Free. For more information, refer to Knowledge Article 7920.**

Food Packaging: V4220 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: V4220 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.

Call 800-843-3610
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