

1580/1860 Inks

V4248

Description

V4248 is a lower temperature, heat-curable black MEK ink qualified for use the 1580 and 1860 continuous inkjet (CIJ) printers. This high-performance ink has been specifically designed for coding and marking applications in the aerospace, automotive and electronics markets. It has excellent abrasion and solvent resistance when heat cured, meeting Mil-Spec 883 and Mil-Spec 202G, Method 215K durability requirements.

Benefits

- Heat curing at 110º C (230º F) for 2 hours or 150º C (302º F) for 30 minutes achieves superior durability, including:
    - Passes Mil-Spec 883 Method 2015.14 and Mil-Spec 202, Method 215 solvents
    - Resistance to other common solvents, including: acetone, MEK, transmission fluid, gasoline, diesel fuel, ethanol, and isopropanol (IPA)
    - Rub, scratch, tape, and transfer resistance
- Passes NASA's outgassing specification when cured at 175º C (347º F) for 2 hours
- Resistant to acids, bases, terpene defluxer, mineral spirits, oils, and retort processing

Applications

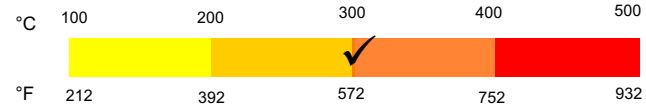
V4248 is used for coding and marking metal and ceramic parts, including gold, nickel, and titanium, which go through a heat curing process after printing and require a permanent code. It is also used for coding cans that require retort and transfer resistance. This ink delivers excellent adhesion to polystyrene, steel, and nylon.

Low VOC (V930) cleaner, compliant with the California SCAQMD Rule 1171, is available.

Adhesion

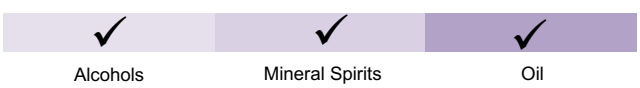
Dry Time (seconds)

Dry Heat Resistance (maximum)



Light Resistance

Chemical Resistance



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Specifications

Product	Product Type	Color	Solvent Type	Container Size	Shelf life
V4248	Ink	Black	MEK	750 ml (-D) 1000 ml (-L)	12 months*
V7248	Make-up	Colorless to pale yellow	MEK	750 ml (-D) 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*

Storage *Store between 2°C and 35°C.

Printer Parameters

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

Certifications and Approvals –

iQMark™: V4248 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: V4248 ink meets the requirements of CONEG model legislation including 94/62/EC. For more information, refer to Knowledge Article 1153.**

RoHS/WEEE: V4248 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: V4248 ink is in compliance with EU Regulation (EC) No. 1907/2006 as amended. For more information, refer to Knowledge Article 1156.**

Halogens: V4248 ink meets the International Electrotechnical Commission (IEC) definition of Halogen-Free. For more information, refer to Knowledge Article 7920.**

Food Packaging: V4248 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: V4248 ink does not contain carcinogens, mutagens, reproductive toxins, 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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