



1000 Line High-Resolution (HR) Ink

V548

Description

V548 is a lower temperature, heat-curable black MEK ink qualified for use the 1000 Line High-Resolution (HR) 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.

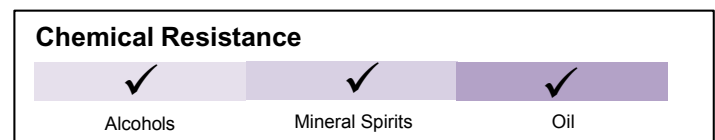
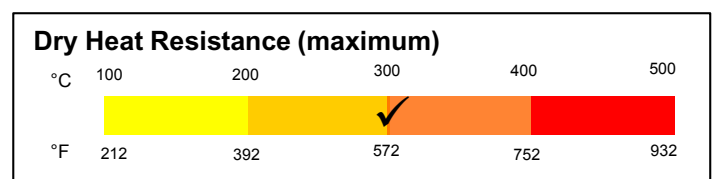
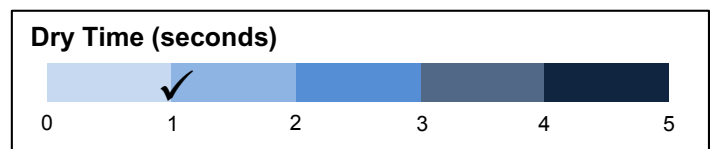
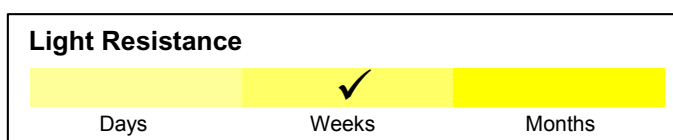
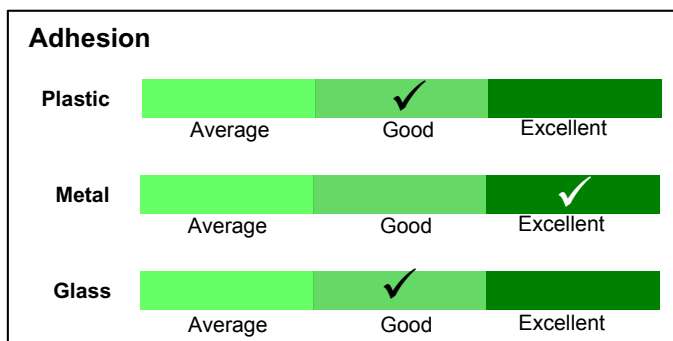
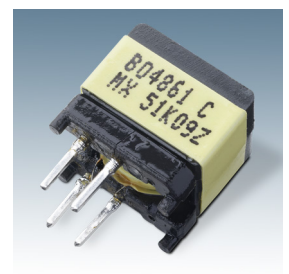
Benefits

- Heat curing at 110 °C (230 °F) for 2 hours or 150 °C (302 °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 175° C (347° F) for 2 hours
- Resistant to acids, bases, terpene defluxer, mineral spirits, oils, and retort processing

Applications

V548 ink 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.



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Specifications

| Product | Product Type | Color | Solvent Type | Container Size | Shelf life |
|---------|--------------|--------------------------|-----------------|----------------|------------|
| V548 | Ink | Black | MEK | 750 ml (-D) | 12 months* |
| V848 | Make-up | Colorless to pale yellow | MEK | 750 ml (-D) | 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 |
|------------------|-----------------------|--------------------|----------------------|
| 1620 HR, 1650 HR | 5-45 °C | 10-90 % | 40µm |

Certifications and Approvals –

iQMark™: V548 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: V548 ink meets the requirements of CONEG model legislation including 94/62/EC. For more information, refer to Knowledge Article 1153.**

RoHS/WEEE: V548 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: V548 ink is in compliance with EU Regulation (EC) No. 1907/2006 as amended. For more information, refer to Knowledge Article 1156.**

Halogens: V548 ink meets the International Electrotechnical Commission (IEC) definition of Halogen-Free. For more information, refer to Knowledge Article 7920.**

Food Packaging: V548 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: V548 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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