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**Nazdar® 203 Series Digital Imaging Inks are designed as a quality alternative to Roland Eco Max 3 original inks.**

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## **Nazdar Color Compatible Digital Ink Inkjet Inks – Color Match Statement**

To accurately advise users of Nazdar color compatible digital inks as to the color match capabilities of a particular ink set, Nazdar have constructed the following rating system. The aim is to substantiate our claims by quantifying our test results and providing a practical guide to achievable results.

This system gives “grade” based on the Delta E 2000\* data generated in our in-house tests. The tests are carried out on specific types of media that represent mid-range in terms of quality and price within the target market.

We have also provided comments to help interpret the grades. However, these should be used as a guide and assistance sought through our Technical Service channels if unclear. Please also be aware that there are variables\*\* that may affect results in the field.

### **Results**

- Nazdar Ink Type: Nazdar 203 Series
- OEM Ink Type: Roland Eco Max 3
- Printer Used: Roland VSi 640
- Media Used: Orajet Gloss Vinyl
- RIP Used: Roland Versa Works
- Settings: 720 x 720 Bidirectional 8 Pass
- Colour Match Rating: 4

### **Rating Classification**

Grade	Delta E 2000	Comment
5	0 - 1.4	Extremely accurate color match. Suitable for all applications including spot colors
4	1.5 - 3	Highly accurate color match. Suitable for most applications but may require a small amount of color management for some spot colors
3	3.1 - 5	Good general color set that can produce usable results for general graphics. Profiling recommended when accurate colors are required.
2	5.1 - 8	Not promoted as an accurate color match ink. Profiling necessary for most applications
1	8>	Not considered a color match. Custom profiling required for all uses.

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## Test Conditions

The information in this document has been produced and collated at one of the Nazdar facilities or onsite at an official beta test site by a Nazdar employee.

Delta E 2000 readings are generated by producing IT 8 charts that read into a DTP70 or Eye One spectrophotometer. Both the OEM ink and Nazdar ink charts are produced on the same printer, using the same settings and on the same roll/batch of media.

### \*Delta E 2000

Delta E is used in testing to evaluate the difference between color produced with Nazdar inks and those of the OEM. This facilitates assessment and comparison of 873 colors and quantifies any differences. From this the average of the best 90% is used.

Delta E 2000 version of this process has been specifically selected as this gives a weighting to the gamut areas most sensitive to the human eye. Nazdar believe this allows better assessment of what users of Nazdar inks can expect in terms of printed output.

There are several variables that can affect or alter the results found in the field that cannot be completely controlled or tested. These include but are not limited to:

- Media type
- Media batch
- Drift within OEM and/or Nazdar specification range
- Printer selection and condition
- RIP selection
- All printer settings
- Environmental conditions

Nazdar® stands behind the quality of this product. Nazdar® cannot, however, guarantee the finished results because Nazdar® exercises no control over individual operating and production procedures. While technical information and advice on the use of this product is provided in good faith, the user bears sole responsibility for selecting the appropriate product for their end use requirements. Users are also responsible for testing to determine that our product will perform as expected during the printed item's entire life cycle from printing, post print processing, and shipment to end use. This product has been specially formulated for digital printing, and it has not been tested by any other method. Any liability associated with the use of this product is limited to the value of the product purchased from Nazdar®.

Based on information from our raw material suppliers, these products are formulated to contain less than 0.06% lead. If exact heavy metal content is required, independent lab analysis is recommended.

## Manufacturers Product Offering

All colors listed below are available in 500ml cartridges and 1 liter containers. Flushing solution is available in 220ml cartridges and 1 liter containers. Contact your Nazdar distributor for product availability and offering.

## Inks

Item Number	Color
LWS203CY	Cyan
LWS203MA	Magenta
LWS203YE	Yellow
LWS203KK	Black
LWS203LC	Light Cyan
LWS203LM	Light Magenta
LWS203LK	Light Black

## Flush

Item Number	Color
LWS203FF	2000 Series Flush Solution

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