

Nazdar Color Match Statement – 2100 Series

To accurately assist and advise users of Nazdar Lyson digital inks as to the color match capabilities of a particular ink set, we have constructed the following rating system. This gives a “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 the general quality level 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: *Lyson 2100 Series*

OEM Ink Type: *Mutoh Eco-Ultra ink*

Printer Used: *Mutoh ValueJet 1604*

Media Used: *Metamark MD5 Gloss Vinyl*

RIP Used: *Onyx Production House 7*

Settings: *720 x 720 Bidirectional*

Color Match Rating: *4*

Additional Comments: *Very well balanced set when compared to the OEM inks.*

Rating Classifications

Grade	Delta E 2000	Comment
5	0 - 2	Extremely accurate color match. Suitable for all applications including spot colors
4	2.1 - 4	Highly accurate color match. Suitable for most applications but may require a small amount of color management for some spot colors
3	4.1 - 6	Good general color set that can produce usable results for general graphics. Profiling recommended when accurate colors are required.
2	6.1 - 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.

Test Conditions

The information in this document is produced and collated at one of the Nazdar facilities, by a Nazdar employee.

We generate our Delta E 2000 readings 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 our tests to evaluate the difference between color produced with Nazdar inks and those of the OEM. This allows us to assess and compare 873 colors and quantifies any differences. From this we use the average of the best 90%.

We have chosen to use the Delta E 2000 version of this process as this gives a weighting to the gamut areas most sensitive to the human eye. We believe this allows us to better assess what a user of our inks can expect in terms of printed output.

****Variables**

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

- Media type
- Media batch
- Drift within OEM and Nazdar specification range
- Printer selection
- RIP selection
- All printer settings

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