

## Certificate for SEIKO EPSON CORPORATION

3 February 2015

Nissenken hereby certifies that SEIKO EPSON CORPORATION has the certificate of Oeko-Tex Standard 100 as follows,

**Certificate;**

No. N-KEN 12123

Product-Class I (baby)

Validity: Until 15. 10. 2015.

(See the attached certificate-copy)

**Article name;**

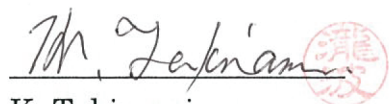
Ink-Jet transfer printing for polyester fabrics with inks  
(for commission work only)

**Note;**

The fabrics printed correctly with the any inks stated below are free of the certain aryl amines.

#Ink-List      Y: T7414/SC5Y100P/T7424  
                  M: T7413/SC5M100P/T7423  
                  C: T7412/SC5C100P/T7422  
                  K: T7411/SC5BK100P/T7421

If any questions, let us know for further explanation.



K. Takinami,

General Manager, Oeko-Tex Laboratory

Nissenken Quality Evaluation Center

# TEST REPORT

8 October 2014  
Nissenken Quality Evaluation Center  
Oeko-Tex Laboratory

This test report is showing the results of the presented samples according to the test-method applied correctly.

Test No. : N-KEN 12123-2A  
Supplier : SEIKO EPSON CORPORATION  
Sample : Ink-Jet transfer printed fabrics  
Test Parameter : Arylamines (AZO-Test)  
Test Method : Oeko-Tex Standard 100

Test Result - Table

[mg/kg]

| Arylamines (24 kinds) |                                           |          | Sample 1                          | Sample 2                          | Sample 3                          | Sample 4                           |
|-----------------------|-------------------------------------------|----------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|
|                       |                                           |          | Y<br>T7414/<br>SC5Y100P/<br>T7424 | M<br>T7413/<br>SC5M100P/<br>T7423 | C<br>T7412/<br>SC5C100P/<br>T7422 | K<br>T7411/<br>SC5BK100P/<br>T7421 |
| No.                   | Substance                                 | CAS No.  |                                   |                                   |                                   |                                    |
| 1                     | 4-Aminobiphenyl                           | 92-67-1  | < 5                               | < 5                               | < 5                               | < 5                                |
| 2                     | Benzidine                                 | 92-87-5  | < 5                               | < 5                               | < 5                               | < 5                                |
| 3                     | 4-Chloro-o-toluidine                      | 95-69-2  | < 5                               | < 5                               | < 5                               | < 5                                |
| 4                     | 2-Naphthylamine                           | 91-59-8  | < 5                               | < 5                               | < 5                               | < 5                                |
| 5                     | o-Aminoazotoluene                         | 97-56-3  | < 5                               | < 5                               | < 5                               | < 5                                |
| 6                     | 2-Amino-4-nitrotoluene                    | 99-55-8  | < 5                               | < 5                               | < 5                               | < 5                                |
| 7                     | p-Chloroaniline                           | 106-47-8 | < 5                               | < 5                               | < 5                               | < 5                                |
| 8                     | 2,4-Diaminoanisole                        | 615-05-4 | < 5                               | < 5                               | < 5                               | < 5                                |
| 9                     | 4,4'-Diaminodiphenylmethane               | 101-77-9 | < 5                               | < 5                               | < 5                               | < 5                                |
| 10                    | 3,3'-Dichlorobenzidine                    | 91-94-1  | < 5                               | < 5                               | < 5                               | < 5                                |
| 11                    | 3,3'-Dimethoxybenzidine                   | 119-90-4 | < 5                               | < 5                               | < 5                               | < 5                                |
| 12                    | 3,3'-Dimethylbenzidine                    | 119-93-7 | < 5                               | < 5                               | < 5                               | < 5                                |
| 13                    | 3,3'-dimethyl-4,4'-diaminobiphenylmethane | 838-88-0 | < 5                               | < 5                               | < 5                               | < 5                                |
| 14                    | p-Cresidine                               | 120-71-8 | < 5                               | < 5                               | < 5                               | < 5                                |
| 15                    | 4,4'-Methylene-bis-(2-chloroaniline)      | 101-14-4 | < 5                               | < 5                               | < 5                               | < 5                                |
| 16                    | 4,4'-Oxydianiline                         | 101-80-4 | < 5                               | < 5                               | < 5                               | < 5                                |
| 17                    | 4,4'-Thiodianiline                        | 139-65-1 | < 5                               | < 5                               | < 5                               | < 5                                |
| 18                    | o-Toluidine                               | 95-53-4  | < 5                               | < 5                               | < 5                               | < 5                                |
| 19                    | 2,4-Toluyldiamine                         | 95-80-7  | < 5                               | < 5                               | < 5                               | < 5                                |
| 20                    | 2,4,5-Trimethylaniline                    | 137-17-7 | < 5                               | < 5                               | < 5                               | < 5                                |
| 21                    | o-Anisidine                               | 90-04-0  | < 5                               | < 5                               | < 5                               | < 5                                |
| 22                    | 2,4-Xylidine                              | 95-68-1  | < 5                               | < 5                               | < 5                               | < 5                                |
| 23                    | 2,6-Xylidine                              | 87-62-7  | < 5                               | < 5                               | < 5                               | < 5                                |
| 24                    | 4-Aminoazobenzene                         | 60-09-3  | < 5                               | < 5                               | < 5                               | < 5                                |

Manager in Charge, T. Yamazaki