Nissenken
Quality Evaluation Center
OEKO-TEX® Laboratory
2-16-11 Kuramae
Taito-ku
111-0051 Tokyo, Japan

OEKO-TEX®
CONFIDENCE IN TEXTILES

# CERTIFICATE

## The Company

**SEIKO EPSON CORPORATION**
**80 Harashinden, Hirooka, Shiojiri-city**
**JP-Nagano, JAPAN**

is granted authorisation according to ECO PASSPORT by OEKO-TEX® to use the OEKO-TEX® mark

OEKO-TEX®
CONFIDENCE IN TEXTILES
ECO PASSPORT
NEP 1903 Nissenken
Textile and leather chemicals. Tested and verified.
www.oeko-tex.com/ecopass

## for the following chemical products

**Product(s):** T49M1, T49N1/SC23BK, T49P1, T49M2, T49N2/SC23C, T49P2, T49M3, T49N3/SC23M, T49P3, T49M4, T49N4/SC23Y, T49P4
**Category:** Disperse dyes

## Supporting documents

- Declaration of conformity in accordance with EN ISO 17050-1 included in ECO PASSPORT by OEKO-TEX® Terms of Use.
- Analytical test report number: NEP 1903
- RSL Screening Report
- Detailed information about the components and safety data sheets of the chemical products mentioned above.

**The above captioned product(s) can be used for the production of human-ecological optimized textiles & leathers. The combined results of the reports mentioned above reveal that there is no harmful effect on the human and environmental health of the textiles & leathers treated/finished with the above mentioned products. This evaluation used the test methods and requirements of the ECO PASSPORT by OEKO-TEX® that were in force at the time of the evaluation date. ZDHC MRSL Conformance Level 1 is achieved for certified product(s) without restriction(s).**

## The certificate NEP 1903 is valid until 31.07.2020

Japan, 19.07.2019

**Kazuhiro Funakawa**
General Manager, OEKO-TEX® Laboratory
Nissenken

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Nissenken Quality Evaluation Center

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# ECO PASSPORT by OEKO-TEX®
## TEST REPORT



Test No: **NEP 1903**

Client:
SEIKO EPSON CORPORATION
セイコーエプソン(株)

Test Date: 17 July 2019

| SUBJECT | | Threshold Values | Sample 1 | Sample 2 |
|---|---|---|---|---|
| | | | T49M1, T49N1/ SC23BK, T49P1 | T49M3, T49N3/ SC23M, T49P3 |
| | | | Black | Magenta |
| Formaldehyde ホルムアルデヒド [mg/kg] | | | | |
| Free and partially releasable | | 200 | < 20 | * |
| Total content of Heavy-Metals 重金属 [mg/kg] | | | | |
| Sb : Antimony | アンチモン | 50 | < 5.0 | < 5.0 |
| As : Arsenic | ヒ素 | 50 | < 5.0 | < 5.0 |
| Pb : Lead | 鉛 | 90 | < 5.0 | < 5.0 |
| Cd : Cadmium | カドミウム | 20 | < 5.0 | < 5.0 |
| Cr : Chromium | クロム | 100 | < 10 | < 10 |
| Cr : Chromium (VI) | 六価クロム | 5 | < 5.0 | < 5.0 |
| Co : Cobalt | コバルト | 500 | < 10 | < 10 |
| Cu : Copper | 銅 | 250 | < 10 | < 10 |
| Ni : Nickel | ニッケル | 200 | < 10 | < 10 |
| Hg : Mercury | 水銀 | 4 | < 0.4 | < 0.4 |
| Ag : Silver | 銀 | 100 | < 10 | < 10 |
| Ba : Barium | バリウム | 100 | < 10 | < 10 |
| Fe : Iron | 鉄 | 2500 | < 10 | < 10 |
| Mn : Manganese | マンガン | 1000 | < 10 | < 10 |
| Se : Selenium | セレン | 20 | < 5.0 | < 5.0 |
| Sn : Tin | スズ | 250 | < 10 | < 10 |
| Zn : Zinc | 亜鉛 | 1500 | < 10 | < 10 |
| Phenols フェノール類 [mg/kg] | | | | |
| PCP / TeCP | | 0.5 | < 0.05 | < 0.05 |
| TrCP | | 2 | < 0.05 | < 0.05 |
| DCP / MCP | | 5 | < 0.1 | < 0.1 |
| OPP | | 100 | < 5.0 | < 5.0 |
| Phenol | | 500 | < 50 | < 50 |
| Phthalates フタレート(可塑剤) [mg/kg] | | | | |
| 合計 | | 250 | < 250 | < 250 |
| Bisphenol A [mg/kg] | | | | |
| | ビスフェノールA | 250 | < 100 | < 100 |
| Organic Tin Compounds 有機スズ化合物 [mg/kg] | | | | |
| TBT / TPhT / TCyHT / TMT / TOT / TPT / DBT / DMT / DOT / DPhT / DPT / MBT / MOT / MMT/ MPhT / TeET / TeBT | | 5 | < 0.5 | * |
| Quinoline [mg/kg] | | | | |
| | キノリン | 250 | < 100 | < 100 |
| Colorants 染料/顔料 [mg/kg] | | | | |
| Cleavable arylamines | 特定芳香族アミン | 100 | < 20 | < 20 |
| Aniline | アニリン | 100 | < 20 | < 20 |
| Allergens | アレルギー誘発性染料 | 50 | < 50 | < 50 |

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# ECO PASSPORT by OEKO-TEX®
## TEST REPORT



Test No: NEP 1903
Client:
SEIKO EPSON CORPORATION
セイコーエプソン(株)
Test Date: 17 July 2019

| SUBJECT | Threshold Values | Sample 1<br>T49M1, T49N1/ SC23BK, T49P1<br>Black | Sample 2<br>T49M3, T49N3/ SC23M, T49P3<br>Magenta |
|---|---|---|---|
| PFC's フッ素化合物 [mg/kg]<br>PFOS / PFOSF/POSF / PFOSA / N-Me-FOSA / N-Et-FOSA / N-Me-FOSE / N-Et-FOSE / PFOA / PFHpA / PFNA / PFDA / PFUdA / PFDoA / PFTrDA / PFTeDA / PFBA / PFPeA / PFHxA / PF-3,7-DMOA / PFBS / PFHxS / PFHpS / PFDS / 7HPFHpA / 4HPFUnA / 1H,1H,2H,2H-PFOS | 0.25 | < 0.1 | * |
| 4:2FTOH / 6:2FTOH / 8:2FTOH / 10:2FTOH<br>6:2FTA / 8:2FTA / 10:2FTA | 0.5 | < 0.1 | * |
| Chlorinated Benzenes and Toluenes [mg/kg]<br>合計 塩素化ベンゼン/トルエン | 10 | < 1.0 | < 1.0 |
| PAH Polycyclic Aromatic Hydrocarbons [mg/kg]<br>合計 多環芳香族炭化水素 | 50 | < 5.0 | < 5.0 |
| Chlorinated paraffins 塩素化パラフィン [mg/kg]<br>合計 SCCP, MCCP | 100 | * | < 50 |
| Siloxanes シロキサン [%(w)]<br>D4 / D5 / D6 | 0.1 | < 0.01 | < 0.01 |
| TCEP Tris-(2-chloroethyl) phosphate [mg/kg]<br>リン酸トリス(2-クロロエチル) | 100 | < 10 | < 10 |
| Solvent Residues 残留有機溶剤 [%(w)]<br>NMP / DMAc / DMF | 0.05 | * | < 0.01 |
| Formamide | 0.02 | * | < 0.01 |
| Surfactant, wetting agent residues [mg/kg]<br>残留界面活性剤 | | | |
| 小計 OP, NP, HpP, PeP | 50 | < 5.0 | < 5.0 |
| 合計 OP, NP, HpP, PeP, OPEO, NPEO | 250 | < 50 | < 50 |
| DMFu Dimethyl fumalate [mg/kg]<br>ジメチルフマレート | 0.1 | < 0.05 | * |
| UV Stabilizers 紫外線吸収剤 [%(w)]<br>UV 320 / UV 327 / UV 328 / UV 350 | 0.1 | * | < 0.01 |
| Chlorinated Solvents [mg/kg]<br>合計 塩素系溶剤 | 50 | < 5.0 | < 5.0 |
| VOC Volatile organic compounds [mg/kg]<br>揮発性有機化合物<br>Methylethylketone / Ethylbenzene / Xylene / Cyclohexanone / 1,2,3-Trichloropropane / Acetophenone / 2-Phenyl-2-propanole / Styrene / Toluene / o-Cresol / m-Cresol / p-Cresol | 100 | < 5.0 | < 5.0 |
| 2-Ethoxyethylacetate / Bi(2-methoxyethyl)ether / Benzene / 2-Ethoxyethanol / Ethylene glycol dimethyl ether / 2-Methoxyethanol / 2-Methoxyethylacetate / 2-Methoxyproplyacetate / Triethylene glycol dimethyl ether | 50 | < 5.0 | < 5.0 |

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