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Test Report

8 July, 2019

Type of Product : TAT INDELIBLE INK STSM-N , STSM-1N , STSM-3N (Black)
<Object:Ink> (STSM-1N-K(Small bottle) , STSM-3N-K(Large bottle))

Test Item	Colour	Result (unit mg/kg)	Minimum limit of determination	Testing Date
a) Lead and lead compounds	Black	Not detected	2	21 February, 2019 - 27 February, 2019
b) Cadmium and cadmium compounds	Black	Not detected	2	21 February, 2019 - 27 February, 2019
c) Mercury and mercury compounds	Black	Not detected	2	21 February, 2019 - 27 February, 2019
d) Hexavalent chromium compounds	Black	Not detected	8	4 March, 2019 - 13 March, 2019
e) PBBs/PBDEs	Black	Not detected	5	21 February, 2019 - 27 February, 2019
f) DBP	Black	Not detected	50	21 February, 2019 - 27 February, 2019
g) BBP	Black	Not detected	50	21 February, 2019 - 27 February, 2019
h) DEHP	Black	Not detected	50	21 February, 2019 - 27 February, 2019
i) DIBP	Black	Not detected	50	21 February, 2019 - 27 February, 2019

(Unit; mg/kg=ppm)

Analysis company : Pb, Cd, Hg, PBBs/PBDEs, DBP, BBP, DEHP, DIDP - SGS-CSTC [Approved Signatory : Dora Hu]
Cr (VI) - SGS Japan [Lab Manager : Yukihiro Ouchi]

Pretreatment:

- a),b) IEC 62321-5 : 2013
c) IEC 62321-4 : 2013+AMD1:2017
d) Water extraction
(The Analysis of Cr(VI) has been taken removal process of element interference.)
e) IEC 62321-6 : 2015
f),g),h),i) IEC 62321-8:2017

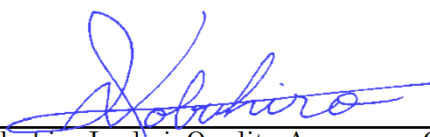
Analysis method:

- a),b) ICP-OES
c) ICP-OES
d) UV/VIS
e) GC-MS
f),g),h),i) GC-MS

note) •A sample completely dissolved in preprocessing operation and performed quantitative analysis. (Lead,Cadmium,Mercury)
“Not detected” means under the minimum limit of determination.
•Black ink contain chromium compounds,dyestuff (Trivalent chromium, not Hexavalent chromium).
Please note that test result by X-ray fluorescence spectrometer shows total chromium value.



Shachihata Inc


Nobuhiro Inukai Quality Assurance Gr.