

Analytical Report Nr. AR-23-JQ-001685-01-EN



0 5 5 0 9 3 9 9 0 0 0 0 3 3 1 5 5

Batch code EUJPTO6-00010607

Date 09.05.2023

MITSUBISHI PENCIL CO., LTD.

 Eurofins Product Testing JAPAN K.K.
 2-1-13 Sachiura Kanazawa-ku
 JP-2360003 YOKOHAMA JAPAN

Analytical Report

Sample code Nr.	295-2023-04000231	Sample reception date:	24.04.2023
		Analysed between:	25.04.2023 - 01.05.2023
Sample described as:	インタマカ- PX-20/PX-21用インク (黒・茶・灰・黄 : 各25%) Ink for PX-20/PX-21 (Black/Brown/Gray/Yellow : 25%each)		

Analyte	Results	Unit	LOQ
JQ001 JQ Cadmium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion			
Cadmium (Cd)	<1	mg/kg	1
JQ018 JQ Lead Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion			
Lead (Pb)	<10	mg/kg	10
JQ035 JQ Mercury Method: IEC 62321-4, ICP-MS, Preparation: Microwave digestion			
Mercury (Hg)	<1	mg/kg	1
JQ043 JQ Total Chromium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion			
Chromium (Cr)	<10	mg/kg	10
JQC58 JQ Phthalates Method: IEC 62321-8, GC-MS, Preparation: Solvent extraction			
Diethylhexylphthalate (DEHP)	<50	mg/kg	50
Dibutyl phthalate (DBP)	<50	mg/kg	50
Benzyl butyl phthalate (BBP)	<50	mg/kg	50
Di-isobutyl phthalate (DiBP)	<50	mg/kg	50

XRF	Results	Unit	LOQ	Method
JQD17 JQ Bromine (Br)	<50	mg/kg	50	IEC 62321-3-1, XRF
If the element of target is influenced with other elements, it may be possible that DL is too high. [Normal DL;Cd,Pb:10ppm, Cr,Hg,Br:50ppm]				

- 3σ value(ppm)... Br:0.2
- [Total Chromium] was not detected, therefore it was determined that the amount of [Hexavalent Chromium] is less than the RoHS directive threshold.
- [Bromine] was not detected, therefore it was determined that the amount of [Bromine compounds] (PBB, PBDE etc.) is less than the RoHS directive threshold.

The tests identified by the two letters code JQ are performed in laboratory Eurofins Product Testing JAPAN K.K..



Yuki Shindo
Test Laboratory Manager

***** END OF REPORT *****

The results may not be reproduced except in full, without a written approval of the laboratory. The results relate only to the sample analysed.

Analytical Report Nr. AR-23-JQ-001687-01-EN



0 5 5 0 9 3 9 9 0 0 0 0 0 3 3 1 5 7

Batch code EUJPTO6-00010607

Date 09.05.2023

MITSUBISHI PENCIL CO., LTD.

 Eurofins Product Testing JAPAN K.K.
 2-1-13 Sachiura Kanazawa-ku
 JP-2360003 YOKOHAMA JAPAN

Analytical Report

Sample code Nr.	295-2023-04000233	Sample reception date:	24.04.2023
		Analysed between:	25.04.2023 - 01.05.2023
Sample described as:	^ イントラ-カ- PX-20/PX-21用インク (青・水・緑・黄緑 : 各25%) Ink for PX-20/PX-21 (Blue/Light blue/Green/Light green : 25%each)		

Analyte	Results	Unit	LOQ
JQ001 JQ Cadmium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Cadmium (Cd)	<1	mg/kg	1
JQ018 JQ Lead Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Lead (Pb)	<10	mg/kg	10
JQ035 JQ Mercury Method: IEC 62321-4, ICP-MS, Preparation: Microwave digestion Mercury (Hg)	<1	mg/kg	1
JQ043 JQ Total Chromium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Chromium (Cr)	<10	mg/kg	10
JQC58 JQ Phthalates Method: IEC 62321-8, GC-MS, Preparation: Solvent extraction Diethylhexylphthalate (DEHP)	<50	mg/kg	50
Dibutyl phthalate (DBP)	<50	mg/kg	50
Benzyl butyl phthalate (BBP)	<50	mg/kg	50
Di-isobutyl phthalate (DiBP)	<50	mg/kg	50

XRF	Results	Unit	LOQ	Method
JQD17 JQ Bromine (Br)	<50	mg/kg	50	IEC 62321-3-1, XRF

If the element of target is influenced with other elements, it may be possible that DL is too high. [Normal DL;Cd,Pb:10ppm, Cr,Hg,Br:50ppm]

- 3σ value(ppm)... Br:0.3
- [Total Chromium] was not detected, therefore it was determined that the amount of [Hexavalent Chromium] is less than the RoHS directive threshold.
- [Bromine] was not detected, therefore it was determined that the amount of [Bromine compounds] (PBB, PBDE etc.) is less than the RoHS directive threshold.

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Yuki Shindo
Test Laboratory Manager

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Analytical Report Nr. AR-23-JQ-001686-01-EN



0 5 5 0 9 3 9 9 0 0 0 0 3 3 1 5 6

Batch code EUJPTO6-00010607

Date 09.05.2023

MITSUBISHI PENCIL CO., LTD.

 Eurofins Product Testing JAPAN K.K.
 2-1-13 Sachiura Kanazawa-ku
 JP-2360003 YOKOHAMA JAPAN

Analytical Report

Sample code Nr.	295-2023-04000232	Sample reception date:	24.04.2023
		Analysed between:	25.04.2023 - 01.05.2023
Sample described as:	インタ-カ- PX-20/PX-21用ヱ (赤・桃・橙・紫 : 各25%) Ink for PX-20/PX-21 (Red/Pink/Orange/Violet : 25%each)		

Analyte	Results	Unit	LOQ
JQ001 JQ Cadmium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion			
Cadmium (Cd)	<1	mg/kg	1
JQ018 JQ Lead Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion			
Lead (Pb)	<10	mg/kg	10
JQ035 JQ Mercury Method: IEC 62321-4, ICP-MS, Preparation: Microwave digestion			
Mercury (Hg)	<1	mg/kg	1
JQ043 JQ Total Chromium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion			
Chromium (Cr)	<10	mg/kg	10
JQC58 JQ Phthalates Method: IEC 62321-8, GC-MS, Preparation: Solvent extraction			
Diethylhexylphthalate (DEHP)	<50	mg/kg	50
Dibutyl phthalate (DBP)	<50	mg/kg	50
Benzyl butyl phthalate (BBP)	<50	mg/kg	50
Di-isobutyl phthalate (DiBP)	<50	mg/kg	50

XRF	Results	Unit	LOQ	Method
JQD17 JQ Bromine (Br)	<50	mg/kg	50	IEC 62321-3-1, XRF
If the element of target is influenced with other elements, it may be possible that DL is too high. [Normal DL;Cd,Pb:10ppm, Cr,Hg,Br:50ppm]				

- 3 σ value(ppm)... Br:0.3
- [Total Chromium] was not detected, therefore it was determined that the amount of [Hexavalent Chromium] is less than the RoHS directive threshold.
- [Bromine] was not detected, therefore it was determined that the amount of [Bromine compounds] (PBB, PBDE etc.) is less than the RoHS directive threshold.

The tests identified by the two letters code JQ are performed in laboratory Eurofins Product Testing JAPAN K.K..



Yuki Shindo
Test Laboratory Manager

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Analytical Report Nr. AR-23-JQ-001688-01-EN



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Batch code EUJPTO6-00010607

Date 09.05.2023

MITSUBISHI PENCIL CO., LTD.

 Eurofins Product Testing JAPAN K.K.
 2-1-13 Sachiura Kanazawa-ku
 JP-2360003 YOKOHAMA JAPAN

Analytical Report

Sample code Nr.	295-2023-04000234	Sample reception date:	24.04.2023
		Analysed between:	25.04.2023 - 01.05.2023
Sample described as:	^ インタ-カ- PX-20/PX-21/PX-30用ヱ (白・金・銀 : 各33%) Ink for PX-20/PX-21/PX-30 (White/Gold/Silver : 33%each)		

Analyte	Results	Unit	LOQ
JQ001 JQ Cadmium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Cadmium (Cd)	<1	mg/kg	1
JQ018 JQ Lead Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Lead (Pb)	<10	mg/kg	10
JQ035 JQ Mercury Method: IEC 62321-4, ICP-MS, Preparation: Microwave digestion Mercury (Hg)	<1	mg/kg	1
JQ043 JQ Total Chromium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Chromium (Cr)	<10	mg/kg	10
JQC58 JQ Phthalates Method: IEC 62321-8, GC-MS, Preparation: Solvent extraction Diethylhexylphthalate (DEHP)	<50	mg/kg	50
Dibutyl phthalate (DBP)	<50	mg/kg	50
Benzyl butyl phthalate (BBP)	<50	mg/kg	50
Di-isobutyl phthalate (DiBP)	<50	mg/kg	50

XRF	Results	Unit	LOQ	Method
JQD17 JQ Bromine (Br)	<50	mg/kg	50	IEC 62321-3-1, XRF

If the element of target is influenced with other elements, it may be possible that DL is too high. [Normal DL;Cd,Pb:10ppm, Cr,Hg,Br:50ppm]

- 3σ value(ppm)... Br:0.3
- [Total Chromium] was not detected, therefore it was determined that the amount of [Hexavalent Chromium] is less than the RoHS directive threshold.
- [Bromine] was not detected, therefore it was determined that the amount of [Bromine compounds] (PBB, PBDE etc.) is less than the RoHS directive threshold.

The tests identified by the two letters code JQ are performed in laboratory Eurofins Product Testing JAPAN K.K..



Yuki Shindo
Test Laboratory Manager

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Analytical Report Nr. AR-23-JQ-001689-01-EN



0 5 5 0 9 3 9 9 0 0 0 0 3 3 1 5 9

Batch code EUJPTO6-00010607

Date 09.05.2023

MITSUBISHI PENCIL CO., LTD.

 Eurofins Product Testing JAPAN K.K.
 2-1-13 Sachiura Kanazawa-ku
 JP-2360003 YOKOHAMA JAPAN

Analytical Report

Sample code Nr.	295-2023-04000235	Sample reception date:	24.04.2023
		Analysed between:	25.04.2023 - 01.05.2023
Sample described as:	^ イントラ-カ- PX-30用インク (黒・青・赤・黄 : 各25%) Ink for PX-30 (Black/Blue/Red/Yellow : 25%each)		

Analyte	Results	Unit	LOQ
JQ001 JQ Cadmium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Cadmium (Cd)	<1	mg/kg	1
JQ018 JQ Lead Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Lead (Pb)	<10	mg/kg	10
JQ035 JQ Mercury Method: IEC 62321-4, ICP-MS, Preparation: Microwave digestion Mercury (Hg)	<1	mg/kg	1
JQ043 JQ Total Chromium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Chromium (Cr)	17	mg/kg	10
JQC58 JQ Phthalates Method: IEC 62321-8, GC-MS, Preparation: Solvent extraction			
Diethylhexylphthalate (DEHP)	<50	mg/kg	50
Dibutyl phthalate (DBP)	<50	mg/kg	50
Benzyl butyl phthalate (BBP)	<50	mg/kg	50
Di-isobutyl phthalate (DiBP)	<50	mg/kg	50

XRF	Results	Unit	LOQ	Method
JQD17 JQ Bromine (Br)	<50	mg/kg	50	IEC 62321-3-1, XRF

If the element of target is influenced with other elements, it may be possible that DL is too high. [Normal DL;Cd,Pb:10ppm, Cr,Hg,Br:50ppm]

- 3σ value(ppm)... Br:0.3
- [Bromine] was not detected, therefore it was determined that the amount of [Bromine compounds] (PBB, PBDE etc.) is less than the RoHS directive threshold.

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