



No.: ETR23902231

Date: 21-Sep-2023

Page: 1 of 5

MURATA MANUFACTURING CO., LTD. 1-10-1, HIGASHI KOTARI, NAGAOKAKYO-SHI, KYOTO, 617-8555, JAPAN.

The following sample Sample Submitted By Sample Name CLIENT REF No	• •	ere submitted and identified by the applicant as: MURATA MANUFACTURING CO., LTD. Electrode ZD_230921 1230906042
Sample Receiving Dat Testing Period	e : :	13-Sep-2023 13-Sep-2023 to 21-Sep-2023
Test Requested	:	Testing item(s) is/are specified by client. Please refer to result table for testing item(s).
Test Results	:	Please refer to following pages.





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No.: ETR23902231

Date: 21-Sep-2023

Page: 2 of 5

MURATA MANUFACTURING CO., LTD.

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Test Part Description

No.1 : GRAY FLAKE

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result
				No.1
Fluorine (F) (CAS No.: 14762-94-8)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.
Chlorine (Cl) (CAS No.: 22537-15-1)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.
Bromine (Br) (CAS No.: 10097-32-2)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.
lodine (l) (CAS No.: 14362-44-8)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.
Phosphorus (P) (CAS No.: 7723-14-0)	With reference to US EPA 3050B: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.
Antimony (Sb) (CAS No.: 7440-36-0)	With reference to US EPA 3050B: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.

Note :

1. mg/kg = ppm ; 0.1wt% = 0.1% = 1000ppm

2. MDL = Method Detection Limit

3. n.d. = Not Detected (Less than MDL)

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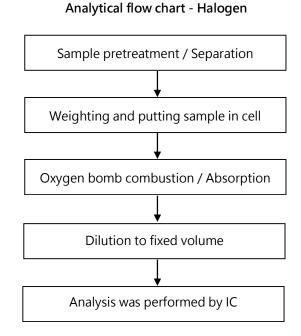
No.: ETR23902231

Date: 21-Sep-2023

Page: 3 of 5

MURATA MANUFACTURING CO., LTD.

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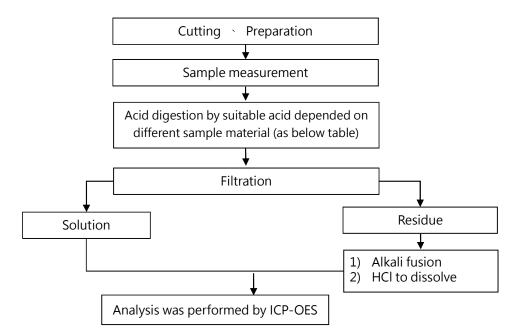
Page: 4 of 5

MURATA MANUFACTURING CO., LTD.

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Flow chart of digestion for the elements analysis performed by ICP-OES

These samples were dissolved totally by pre-conditioning method according to below flow chart.



Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂		
Glass	HNO ₃ /HF		
Gold, platinum, palladium, ceramic	Aqua regia		
Silver	HNO ₃		
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl		
Others	Added appropriate reagent to total digestion		

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No.: ETR23902231

Date: 21-Sep-2023

Page: 5 of 5

MURATA MANUFACTURING CO., LTD.

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* The tested sample / part is marked by an arrow if it's shown on the photo. *



** End of Report **

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