

No.: ETR21505500 Date: 04-Jun-2021

MURATA MANUFACTURING CO., LTD.

1-10-1, HIGASHI KOTARI, NAGAOKAKYO-SHI, KYOTO, 617-8555, JAPAN.

The following sample(s) was/were submitted and identified by/on behalf of the applicant as:

MURATA MANUFACTURING CO., LTD. Sample Submitted By

Sample Name Sn PLATING_210604

CLIENT REF No 1210511050

Sample Receiving Date 27-May-2021

Testing Period 27-May-2021 to 04-Jun-2021

Testing item(s) is/are specified by client. Please refer to result table for **Test Requested**

testing item(s).

Test Results Please refer to following pages.





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Test Part Description

No.1 : SILVER COLORED SHEET

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 (I) (CAS No.: 14362-44-8)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	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.
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.

Note:

1. mg/kg = ppm ; 0.1wt% = 1000ppm 2. MDL = Method Detection Limit

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

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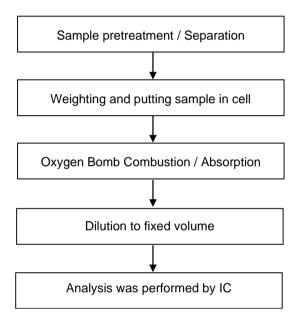
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Analytical flow chart - Halogen



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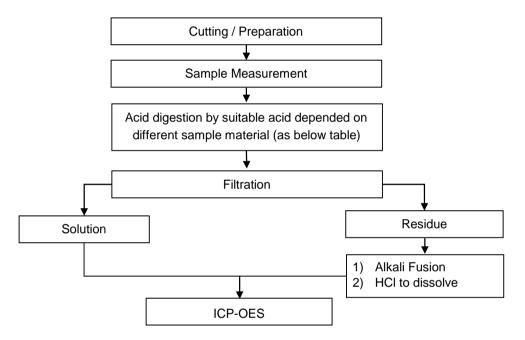


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Flow Chart of digestion for the elements analysis performed by ICP-OES

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



Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂	
HNO ₃ /HF	
Aqua regia	
HNO ₃	
H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCI	
Added appropriate reagent to total digestion	

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

ETR21505500



** End of Report **

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