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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 client as:

Sample Description : CERAMIC MA

Other Info. : CLIENT REF No:11096041

Sample Receiving Date : 2011/09/05

Testing Period : 2011/09/05 TO 2011/09/09

: Please refer to next page(s). Test Result(s)



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Test Result(s)

PART NAME No.1 : WHITE CERAMIC

Test Item (s):	Unit	Method	MDL	Result
				No.1
Antimony (Sb)	mg/kg	With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES.	2	n.d.
Phosphorus (P)	mg/kg	With reference to US EPA Method 3052 for Phosphorus Content. Analysis was performed by ICP-AES.	2	n.d.
Halogen				
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	ma/ka	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
Halogen-Chlorine (CI) (CAS No.: 22537-15-1)			50	n.d.
Halogen-Bromine (Br) (CAS No.: 10097-32-2)			50	n.d.
Halogen-lodine (I) (CAS No.: 14362-44-8)			50	n.d.

Note:

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

2. n.d. = Not Detected

3. MDL = Method Detection Limit

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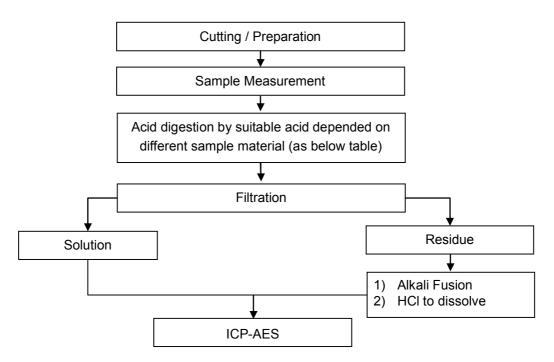
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 ${\tt MURATA\ MANUFACTURING\ CO.,\ LTD.}$

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

- These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang

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



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	Any acid to total digestion	

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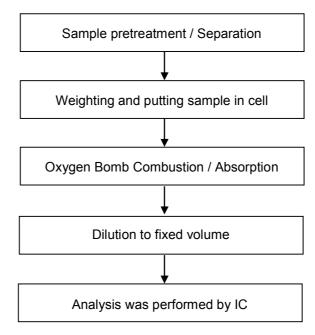
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Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Rita Chen
- 2) Name of the person in charge of measurement: Troy Chang



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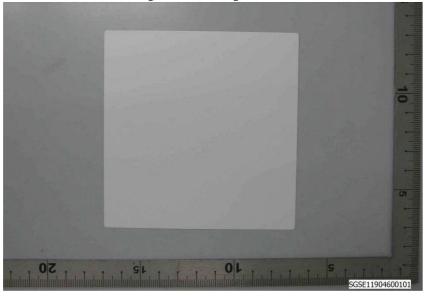


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** End of Report **

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