

**Samtec**  
520 Park East Blvd.  
New Albany, IN 47151  
United States

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

**RETEST - Brass Leaded – Color = Yellow Brass**  
**Model/Part No.: RETEST - Brass Leaded**  
**Country of Destination: USA**

Sample Received Date:

**9/6/2018**

Testing Period:

**9/7/2018 – 9/12/2018**

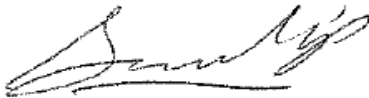
Test Requested : Please refer to the result summary.

Test Method & Results : Please refer to next page(s).

Result Summary :

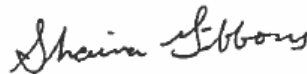
Test Requested	Comment
1. RoHS Directive 2011/65/EU Annex II – Cadmium, Lead, Mercury, Hexavalent Chromium Content	FAIL

Signed for and on behalf of SGS North America, Inc.



Sandip Ramolia  
Senior Analytical Chemist, Chemistry Laboratory

Prepared By:



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Report Writer, Chemistry Laboratory

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**1. RoHS Directive 2011/65/EU Annex II – Cadmium, Lead, Mercury, Hexavalent Chromium Content**

Test Item(s):	Unit	Test Method	Results	MDL	Limit
			1		
Cadmium(Cd)	mg/kg	With reference to IEC 62321-5:2013	3.83	2	100
Lead (Pb)	mg/kg	(Determination of Cd and Pb by ICP-OES and /or ICP-MS)	32300	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES and/ or ICP-MS)	ND	2	1000
Hexavalent Chromium (CrVI)	mg/kg	With reference to IEC 62321; EPA 3060A (Determination of CrVI by UV-VIS)	ND*	2	1000
<b>Conclusion</b>	/	/	<b>FAIL</b>	/	/

**Sample Description:**

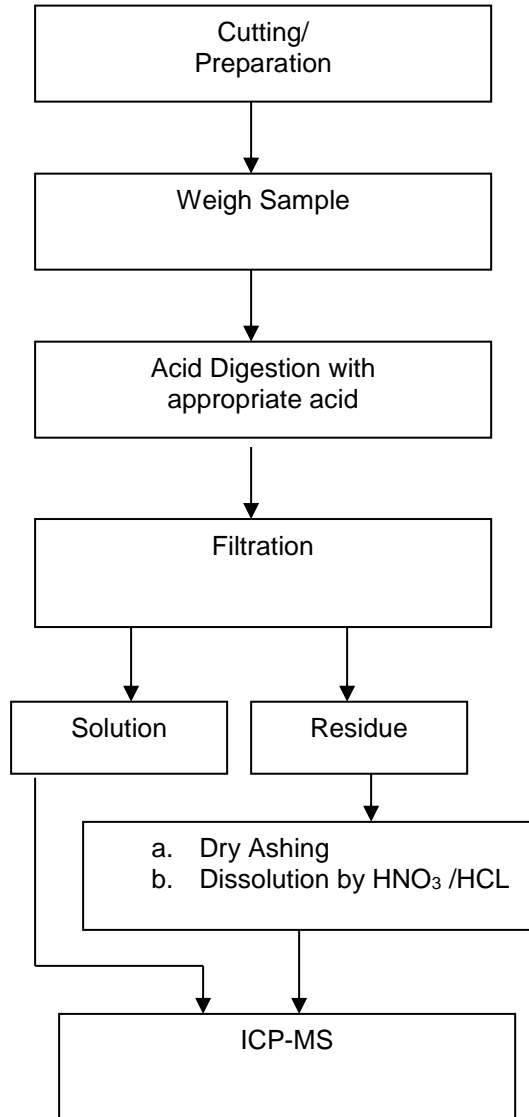
1. Brass Leaded – Color = Yellow Brass – Model No.: Brass Leaded (**RETEST**)

**Note:**

- (a) mg/kg = ppm ; 0.1wt% = 1000ppm
- (b) ND= not detected
- (c) MDL = Method Detection Limit
- (d) - = not regulated
- (e) \* = Total Chromium analysis by ICP-MS and/or ICP-OES was not detected in submitted sample. Therefore, Hexavalent Chromium determination using UV-Visible Spectroscopy was not performed.
- (f) IEC 62321 series is equivalent to EN 62321 series  
[http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:1258637,25](http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25)

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**Flowchart for RoHS Heavy Metals**



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Sample Photo(s):



SGS authenticates the photo(s) on the original report only

\*\*\* End of Report \*\*\*

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