



(General Corp) Japan Inspection Instrument Manufacturers' Association (JIMA)

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Dear Sirs,

Information regarding JIMA Test Pieces for Food Inspection

20 July, 2016

Japan Inspection Instruments Manufacturers' Association  
Chairman for Food Test Pieces  
RT Divison

Hiroyuki Yamamoto

We would appreciate your kind cooperation in daily business with us.

We would like to inform all of customers and involved persons about change of Glass material.

[Parts numbers to be changed]

6 pieces Test Piece: FGB6-01, FGB6-02

Single Piece Test Piece: FGB-0.5, FGB-1.0, FGB-1.5, FGB-2.0, FGB-3.0, FGB-4.0, FGB-5.0, FGB-6.0, FGB-7.0

[About material for Glass]

Since we started supply of Soda Glass test piece, we measured and guaranteed the physical dimensions. And, the material itself was relied on the supplier by specific part number of one particular manufacturer. However, we realized that the content of Soda Glass was not defined by JIS(Japanese Industrial Standard) clearly and the component has certain range of variation. Then we realized that there are some difference in X-Ray absorption ratio even in same material depend on purchase lot. This causes difference in sensitivity of X-Ray penetration. As the result, we concluded that Soda Glass is not a proper material as for test piece especially in long term.

Range of Contents for Soda Glass:

Contents (wt%)			
SiO2	Na2O	CaO	Others
68.0 – 75.0 %	11.0 – 17.0 %	5.0 – 12.0 %	0.01%

(The manufacturer's specification. Not JIS.)

Improvement:

In order to maintain same absorption characteristics for X-ray in long years, we selected Quartz Glass whose content is 99.99% of SiO2.

This Quartz Glass can be replace of Soda Glass and can be used as for Master test piece to compare with other materials.

Please note that Quartz Glass has lower density in comparison with Soda Glass (around 15% or less). So, the absorption of Quartz is lower than Soda Glass, which means higher signal of amplitude will be obtained by Quartz Glass than Soda Glass.

Accordingly the supply of Soda Glass will be obsoleted by end of September, 2016.

Range of Contents for Quartz Glass:

Contents (wt%)			
SiO2	Na2O	CaO	Others
99.99 %	--	--	0.01%

We hope your kind understanding and cooperation that JIMA is always seeking better quality to improve peoples' safety and our reliability.

Close