

No. : GZMR120717066

Date : Jul. 20, 2012

Page: 1 of 11


ShellShack
Designs
Ltd.

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

Sample Name : TRANSLUCENT STONE 1
SGS Ref No. : GP120701095-4.2, KV-12-04462X,CANML1205022901
Test Performed : Selected test(s) as requested by applicant
Date of Receipt : Apr. 27, 2012
Test Period : Apr. 27, 2012 to May. 24, 2012
Test result(s) : Please refer to the following page(s)

*****To be continued*****

Signed for and on behalf of
SGS-CSTC Ltd.


Michelle Xu
Engineer

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Test Information:

Sample description: See photo

No	Test item	Test method	Condition	Result
1	Cold resistance	With reference to SN/T 0308-93 and client's requirement	-35°C, 72h	No warping, deformation, cracking, or other visual change
2	Abrasion test	With reference of ASTM D1044-08 and client's requirement	Wheel: CS-17 Load: 500g/wheel (total 1000g) Cycles:5000	Weight loss: 197mg
				Appearance after test: Evident abrasion trace, but no worn-out damage
3	Chemical resistance	With reference to ASTM D543-06 and client's requirement	Immersion, 23°C, 24h, 10%Na ₂ CO ₃ (AR)solution (m/m)	No visual change
4	Composition analysis	FTIR, XRF, PGC-MS and TGA	---	(see table 1)
5	Impact resistance	With reference to SN/T 0308-93 Section 4.8.9	Specimen: 200×200×7.10mm Steel ball weight: 1kg Drop height: 40cm	Cracking
6	Flexural strength	SN/T 0308-93 Section 4.8.3	Wet condition: immerse in water, 20±5°C, 48h Specimen: 160×80×5.87mm Testing speed: 50N/s Span: 140mm	27.4MPa

*****To be continued*****

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No	Test item	Test method	Condition	Result
7	Compressive strength	SN/T 0308-93 Section 4.8.4	Wet condition: immerse in water, 20±5°C, 48h Specimen: 48×47×50mm (7 layers plied up) Testing speed: 1.0MPa/s	79.8MPa
8	Density	ASTM D792-08 Method B	Absolute alcohol, 23±0.5°C	1.86g/cm ³
9	Izod notched impact strength	With reference to ASTM D256-10 Method A and client's requirement	Specimen width: 5.88mm (Notch prepared by SGS) The capacity of pendulum: 1J Impact speed: 3.46m/s	14J/m C(complete break)
10	Heat deflection temperature	With reference to ASTM D648-07 Method B and client's requirement	Specimen: 124×5.83×12.65 mm Rate of temperature: 120°C/h Load: 1.80MPa Span: 100mm	63.2°C
11	20 mm Vertical Burning Test	UL 94-1996 REV.15:2012 Section 8	Specimen: 126×13.3×5.9mm	V-0 (see table 2 and 3)
12	Shore hardness	ASTM D2240-05(2010)	Specimen thickness: 7.10mm	D/89/1 (see note 2)

***** To be continued *****

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GZMR 0168999

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No	Test item	Test method	Condition	Result
13	Coefficient of linear thermal expansion (1°C)	With reference to ASTM D696 - 08	Test temperature range : Ramp 10°C/min from -30°C to 30°C Purge gas: Nitrogen (N ₂), Purity 99.999% Flow rate: 50ml/min. Measurement direction: Thickness	38.29×10 ⁻⁶ (see test spectrum)
14	RoHS Directive 2011/65/EU	With reference to IEC 62321:2008 Determination of Cadmium, Lead and Mercury by ICP-OES; Determination of Hexavalent Chromium by Colorimetric Method using UV-Vis. Determination of PBBs / PBDEs content by GC-MS.	---	(see table 4 and note 3)

Table 1

Composition	Content
Unsaturated polyester (UP)	20%
Aluminium hydroxide	69%
Calcium carbonate	11%

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Table 2

Conditioning	23±2°C, 50±5%RH, 48h					70±2°C, 168h→Desiccator, 23±2°C, 4h				
	1	2	3	4	5	1	2	3	4	5
Specimen No.										
Flame time after first application (s), t ₁	0	0	0	0	0	0	0	0	0	0
Flame time after second application (s), t ₂	0	0	0	0	0	0	0	0	0	0
After glow time after second application (s), t ₃	0	0	0	0	0	0	0	0	0	0
Total afterflame time for any condition set(s), t ₁ +t ₂	0					0				
Afterflame plus afterglow time for each individual specimen after the second flame application(s), t ₂ +t ₃	0	0	0	0	0	0	0	0	0	0
Flames/glow reached holding clamp	No	No	No	No	No	No	No	No	No	No
Cotton indicator ignited by flaming particles or drops	No	No	No	No	No	No	No	No	No	No

Table 3

Criteria conditions	V-0	V-1	V-2
Afterflame time for each individual specimen t ₁ or t ₂	≤10s	≤30s	≤30s
Total afterflame time for any condition set (t ₁ + t ₂ for 5 specimens)	≤50s	≤250s	≤250s
Afterflame plus afterglow time for each individual specimen after the second application (t ₂ +t ₃)	≤30s	≤60s	≤60s
Afterflame or afterglow of any specimen up to the holding clamp	No	No	No
Cotton indicator ignited by flaming particles or drops	No	No	Yes

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Table 4

Test Item(s)	Limit	Unit	MDL	Result
Cadmium (Cd)	100	mg/kg	2	N.D.
Lead (Pb)	1000	mg/kg	2	N.D.
Mercury (Hg)	1000	mg/kg	2	N.D.
Hexavalent Chromium (CrVI)	1000	mg/kg	2	N.D.
Sum of PBBs	1000	mg/kg	-	N.D.
Monobromobiphenyl	-	mg/kg	5	N.D.
Dibromobiphenyl	-	mg/kg	5	N.D.
Tribromobiphenyl	-	mg/kg	5	N.D.
Tetrabromobiphenyl	-	mg/kg	5	N.D.
Pentabromobiphenyl	-	mg/kg	5	N.D.
Hexabromobiphenyl	-	mg/kg	5	N.D.
Heptabromobiphenyl	-	mg/kg	5	N.D.
Octabromobiphenyl	-	mg/kg	5	N.D.
Nonabromobiphenyl	-	mg/kg	5	N.D.
Decabromobiphenyl	-	mg/kg	5	N.D.
Sum of PBDEs	1000	mg/kg	-	N.D.
Monobromodiphenyl ether	-	mg/kg	5	N.D.
Dibromodiphenyl ether	-	mg/kg	5	N.D.
Tribromodiphenyl ether	-	mg/kg	5	N.D.
Tetrabromodiphenyl ether	-	mg/kg	5	N.D.
Pentabromodiphenyl ether	-	mg/kg	5	N.D.
Hexabromodiphenyl ether	-	mg/kg	5	N.D.
Heptabromodiphenyl ether	-	mg/kg	5	N.D.
Octabromodiphenyl ether	-	mg/kg	5	N.D.
Nonabromodiphenyl ether	-	mg/kg	5	N.D.
Decabromodiphenyl ether	-	mg/kg	5	N.D.

Conclusion: Based on the performed tests on submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

***** To be continued *****

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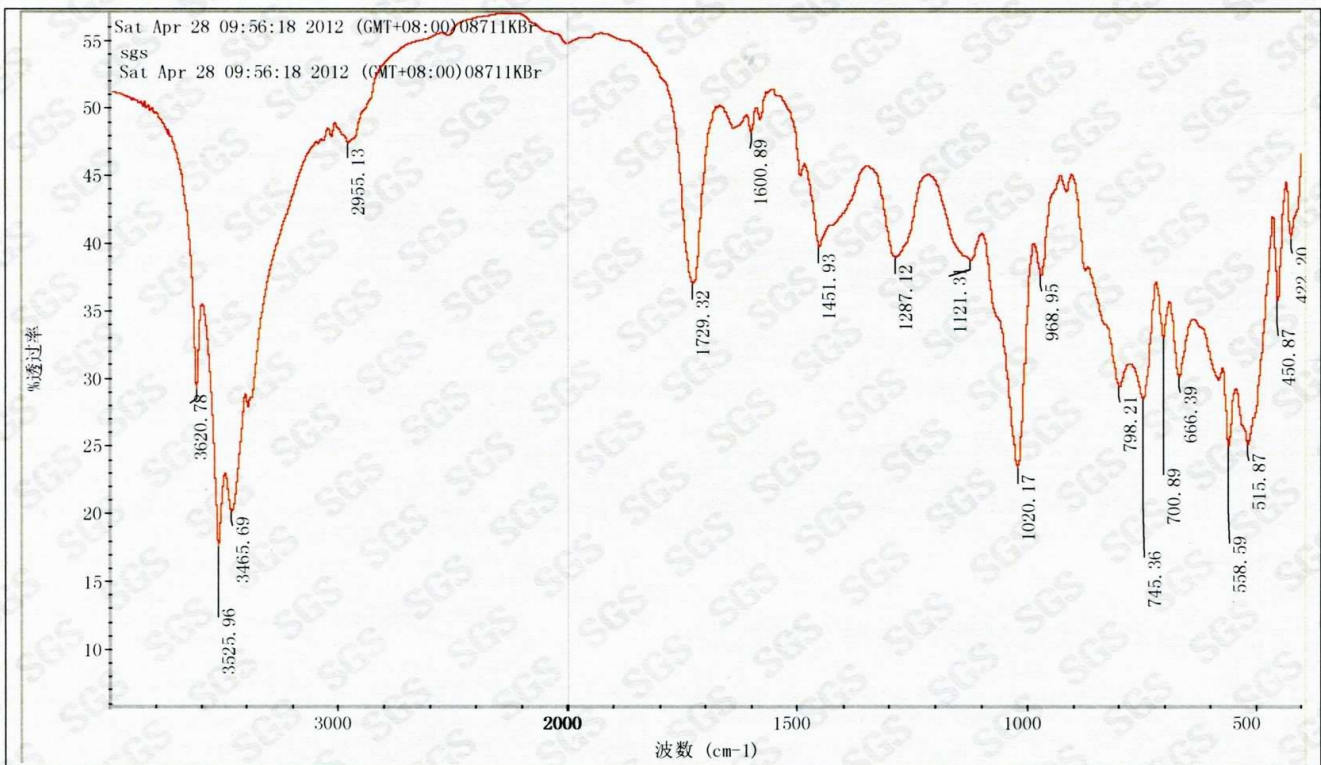
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Note:

- The data of table 1 is for reference only.
- D/89/1- "D": type of durometer, "89": hardness value, "1": read time(s).
- RoHS Directive 2011/65/EU
 - 1 mg/kg = 1 ppm = 0.0001%
 - MDL = Method Detection Limit
 - N.D. = Not Detected (< MDL)
 - "-" = Not Regulated
 - The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II.
- The test item 13 was carried out by a SGS laboratory.
- This test report is to supersede test report No.GZMR120408711.

FTIR spectra:



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GZMR 0169003

No. : GZMR120717066

Date : Jul. 20, 2012

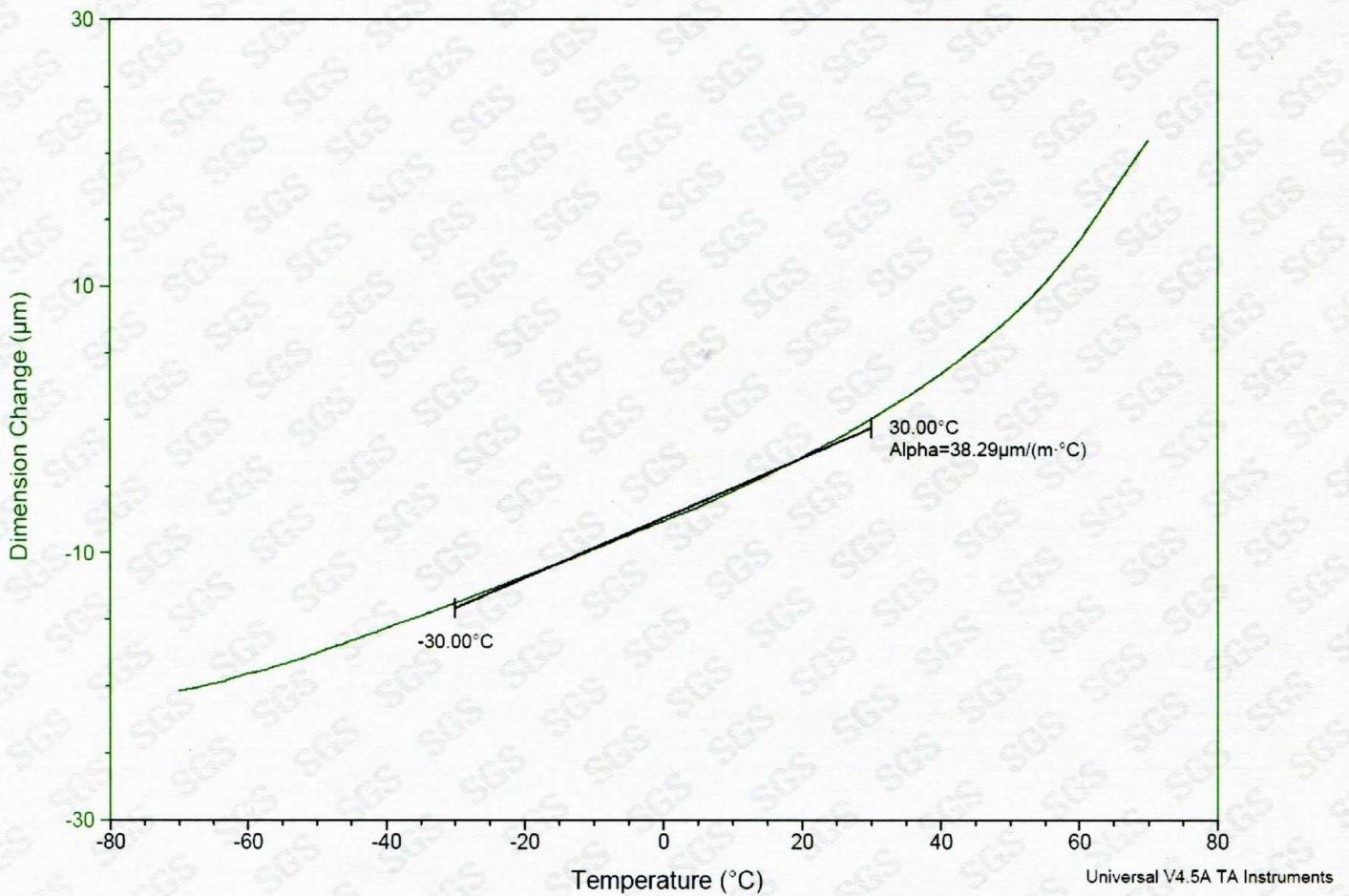
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Test Spectrum :

Sample: KV-12-04462 6-1
Size: 5.8917 mm

TMA

File: C:\TMA\2012.05\KV-12-04462 6-1.001
Operator: Mina Hsu
Run Date: 04-May-2012 10:27
Instrument: TMA Q400 V7.4 Build 93



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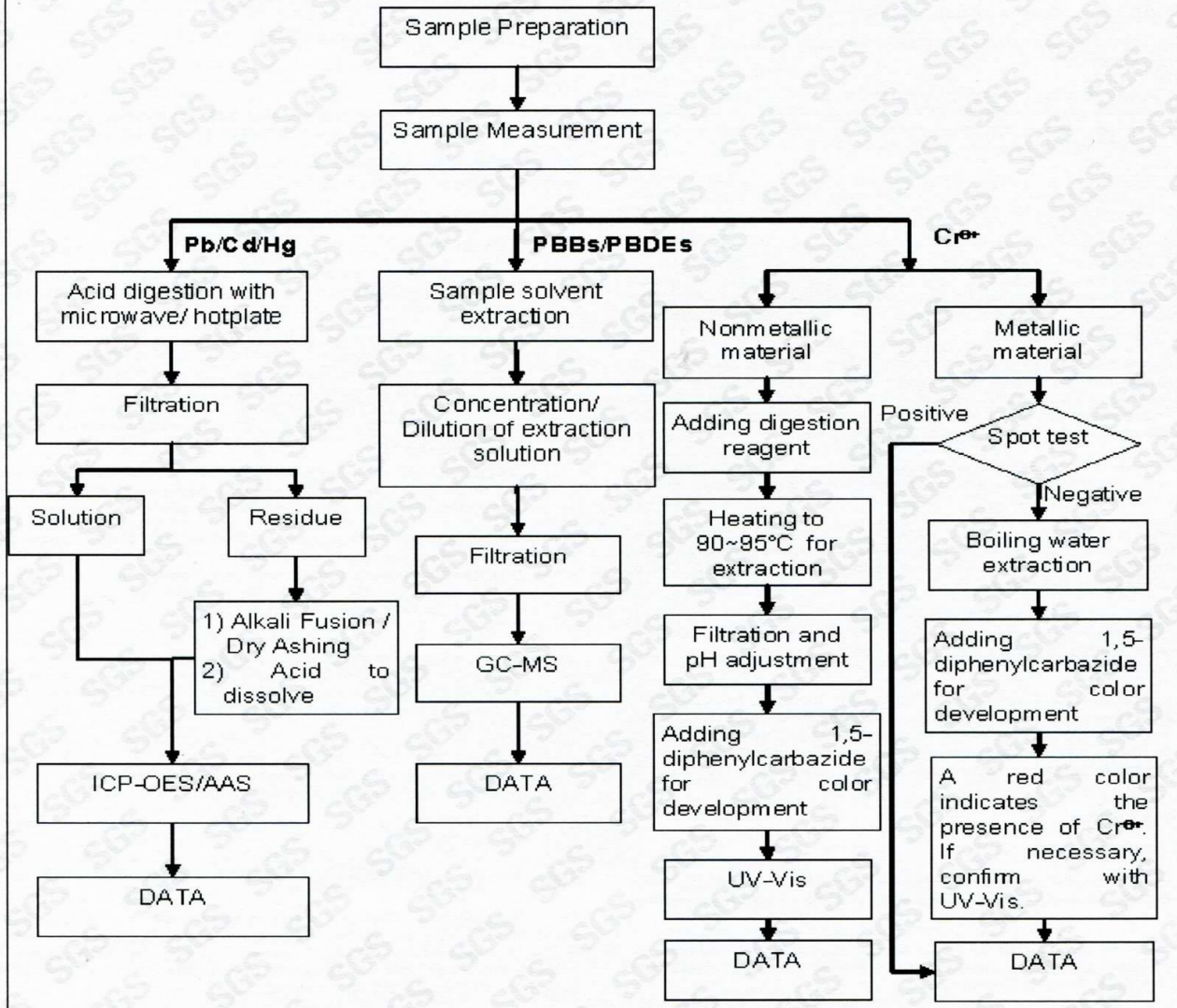
GZMR 0169004

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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bella Wang / Cutey Yu
- 2) Name of the person in charge of testing: Adams Yu / Ryan Yang
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).



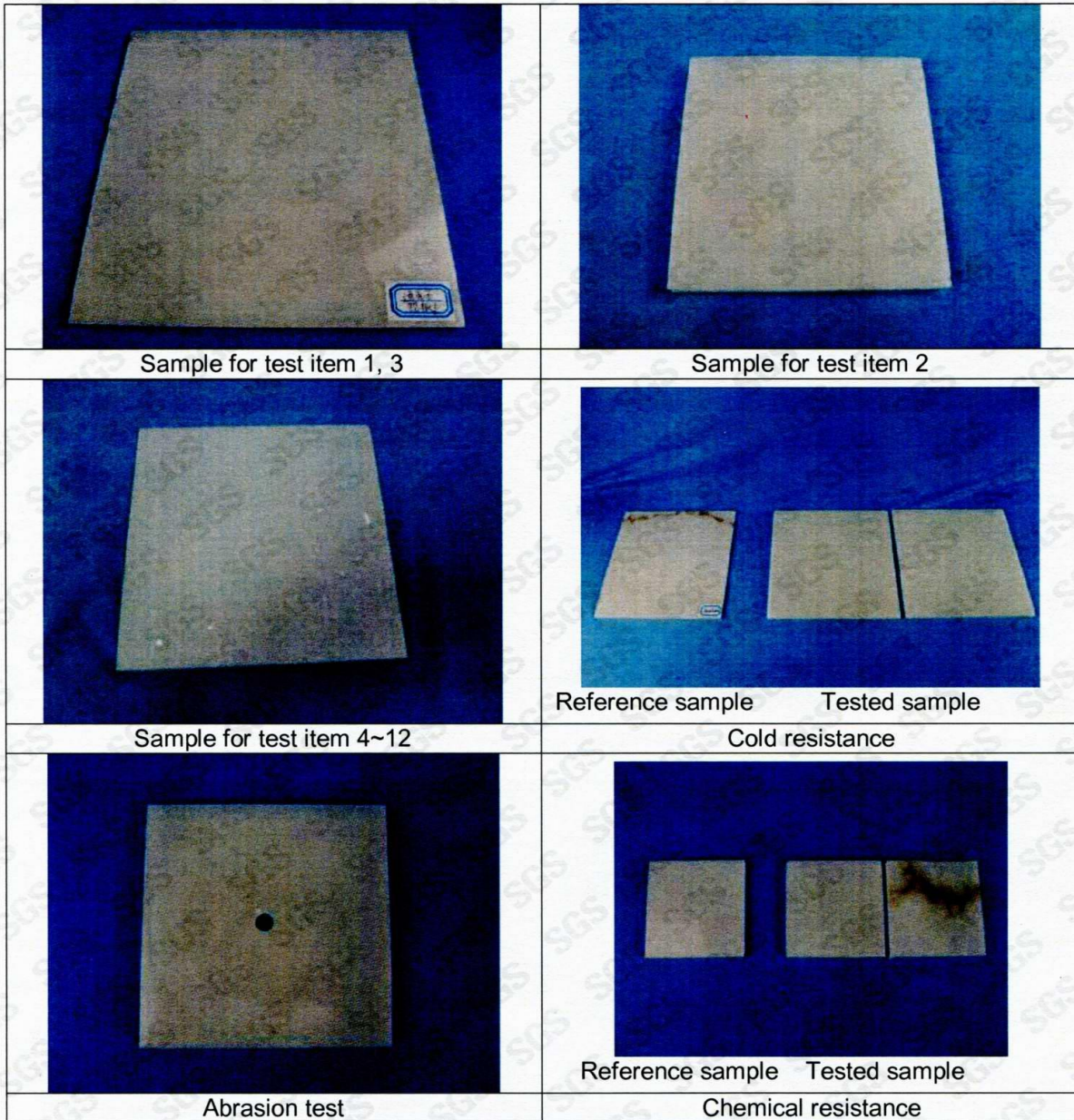
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Photo:



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Coefficient of linear thermal expansion



RoHS Directive 2011/65/EU

*****End of report*****

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