



TEST REPORT

No. : NBMLM140700277

Date : Aug.05,2014

Page: 1 of 17

NINGBO POLARIS METAL PRODUCTS CO., LTD
XINCHENG COUNTRY CHANGJIE, NINGHAI, CHINA

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

Sample Name : PVD COLORED STAINLESS STEEL SHEETS

Sample No. : NBMLM140700277

Test item : Adhesive Power Test, Neutral Salt Spray Test, Chemical Resistance Test, Cross section +SEM inspection

Date of Receipt : Jul.24,2014

Test Period : Jul.24,2014 to Aug.05,2014

Test result(s) : For further details, please refer to the following page(s)

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

Signed for SGS-CSTC Standards
Technical Services Co., Ltd

Lan Jia
Section Supervisor

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

NBML



SGS-CSTC Standards Technical Services Co., Ltd.
Ningbo Branch

1-2,5/F West No.4 Building, Lingyun Industry Park, No.1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, China 315040 t (86-574) 87767006 f (86-574) 87901159 www.sgsgroup.com.cn
中国·宁波·国家高新区凌云路1177号凌云产业园4号楼西1-2,5层 邮编: 315040 t (86-574) 87767006 f (86-574) 87901159 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)

TEST REPORT

No. : NBMLM140700277

Date : Aug.05,2014

Page: 2 of 17

1. Test Item: Adhesive Power Test

Test Method: GB/T 5270-2005 section 2.8

Test Conditions:

Spacing of cuts: 1mm

Cutting tool: Hand-held single-blade cutting tool

Test Result(s):

Sample	Color	Result
PVD Colored Stainless Steel Sheets	Gold	Plating film did not peel off from metal
	Rose Gold	Plating film did not peel off from metal
	Bronze	Plating film did not peel off from metal
	Coffee	Plating film did not peel off from metal
	Black	Plating film did not peel off from metal
	Nickel Silver	Plating film did not peel off from metal

Test Photos:

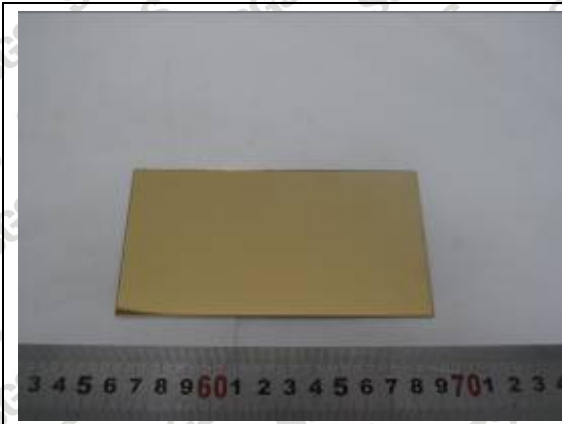


Fig.1 PVD Gold Colored Stainless Steel Sheets

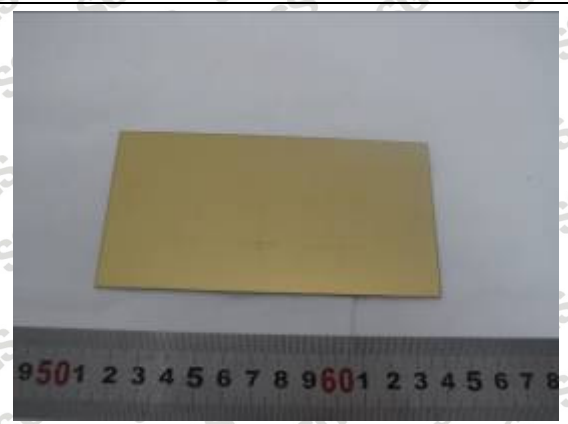


Fig.2 After Adhesive Power Test PVD Gold Colored Stainless Steel Sheets

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



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

NBML

SGS-USA Standards Technical Services Co., Ltd.
Ningbo Branch

1-2,5/F West No. 4 Building, Lingyun Industry Park, No. 1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, China 315040 t (86-574) 87767006 f (86-574) 87901159 www.sgsgroup.com.cn
中国·宁波·国家高新区凌云路1177号凌云产业园4号楼西1-2.5层 邮编: 315040 t (86-574) 87767006 f (86-574) 87901159 e sgs.china@sgs.com

TEST REPORT

No. : NBMLM140700277

Date : Aug.05,2014

Page: 3 of 17

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)93071443, or email: CN.Doccheck@sgs.com



Fig.3 After Adhesive Power Test
Close-up
PVD Gold Colored Stainless Steel Sheets

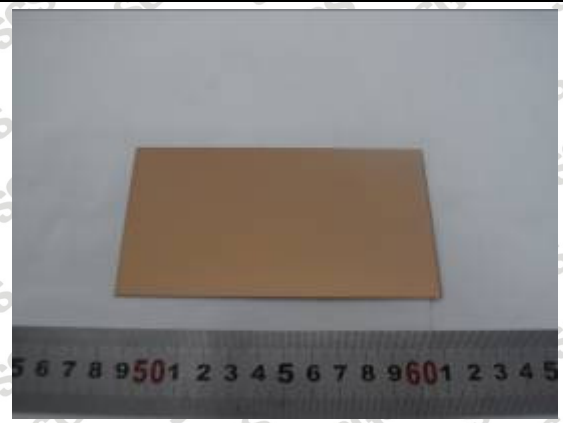


Fig.4 PVD Rose Gold Colored Stainless Steel Sheets

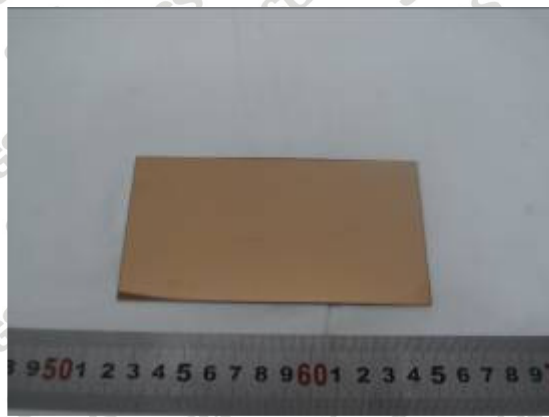


Fig.5 After Adhesive Power Test
PVD Rose Gold Colored Stainless Steel Sheets



Fig.6 After Adhesive Power Test
Close-up
PVD Rose Gold Colored Stainless Steel Sheets

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



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

NBML

SGS-Standard Technical Services Co., Ltd.
Ningbo Branch

1-2,5/F West No.4 Building, Lingyun Industry Park, No.1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, China 315040 t (86-574) 87767006 f (86-574) 87901159 www.sgsgroup.com.cn
中国·宁波·国家高新区凌云路1177号凌云产业园4号楼西1-2,5层 邮编: 315040 t (86-574) 87767006 f (86-574) 87901159 e sgs.china@sgs.com

TEST REPORT

No. : NBMLM140700277

Date : Aug.05,2014

Page: 4 of 17

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)93071443, or email: CN.Doccheck@sgs.com

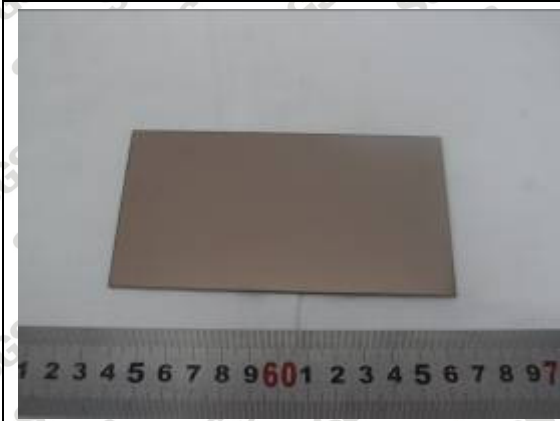


Fig.7 PVD Bronze Colored Stainless Steel Sheets

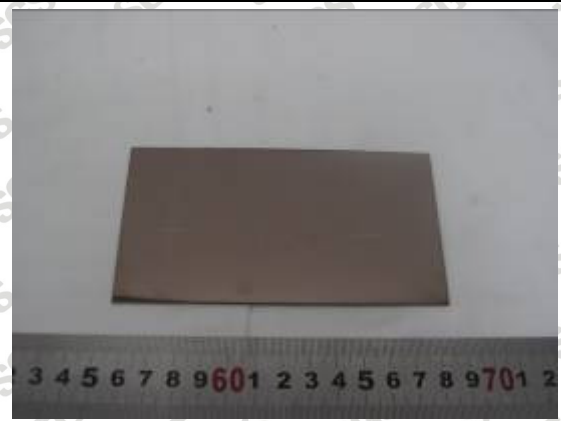


Fig.8 After Adhesive Power Test PVD Bronze Colored Stainless Steel Sheets



Fig.9 After Adhesive Power Test Close-up PVD Bronze Colored Stainless Steel Sheets

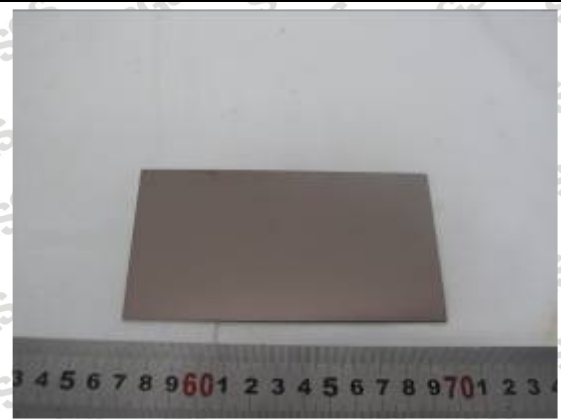


Fig.10 PVD Coffee Colored Stainless Steel Sheets

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



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

NBML

SGS-Standard Technical Services Co., Ltd.
Ningbo Branch

1-2,5/F West No. 4 Building, Lingyun Industry Park, No. 1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, China 315040 t (86-574) 87767006 f (86-574) 87901159 www.sgsgroup.com.cn
中国·宁波·国家高新区凌云路1177号凌云产业园4号楼西1-2,5层 邮编: 315040 t (86-574) 87767006 f (86-574) 87901159 e sgs.china@sgs.com

TEST REPORT

No. : NBMLM140700277

Date : Aug.05,2014

Page: 5 of 17

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755)93071443, or email: CN.Doccheck@sgs.com

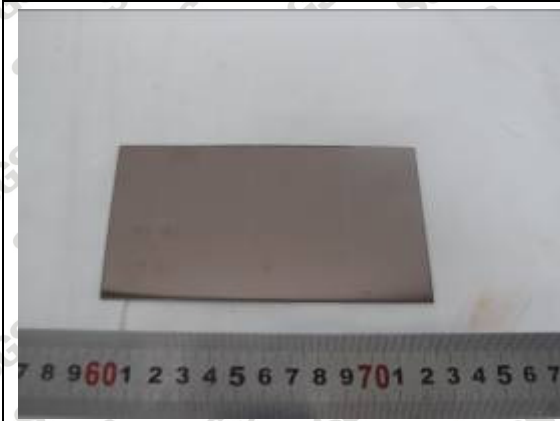


Fig.11 After Adhesive Power Test
PVD Coffee Colored Stainless Steel Sheets



Fig.12 After Adhesive Power Test
Close-up
PVD Coffee Colored Stainless Steel Sheets

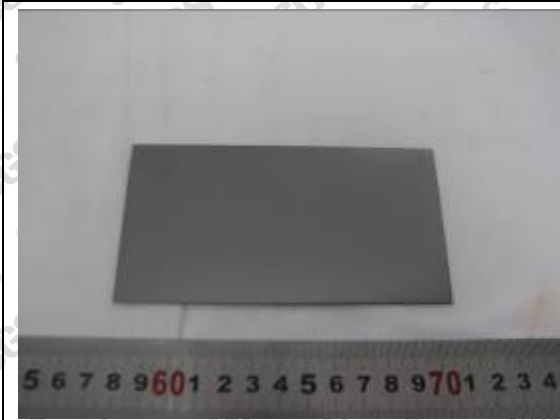


Fig.13 PVD Black Colored Stainless Steel
Sheets

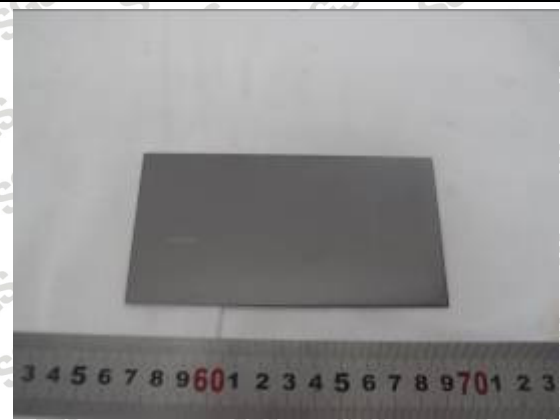


Fig.14 After Adhesive Power Test
PVD Black Colored Stainless Steel Sheets

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



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

NBML

SGS Standards Technical Services Co., Ltd.
Ningbo Branch

1-2,5/F West No.4 Building, Lingyun Industry Park, No.1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, China 315040 t (86-574) 87767006 f (86-574) 87901159 www.sgsgroup.com.cn
中国·宁波·国家高新区凌云路1177号凌云产业园4号楼西1-2,5层 邮编: 315040 t (86-574) 87767006 f (86-574) 87901159 e sgs.china@sgs.com

TEST REPORT

No. : NBMLM140700277

Date : Aug.05,2014

Page: 6 of 17

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)93071443, or email: CN.Doccheck@sgs.com



Fig.15 After Adhesive Power Test
Close-up
PVD Black Colored Stainless Steel Sheets

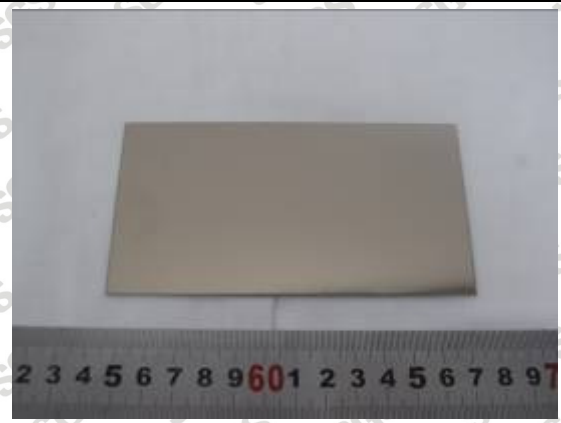


Fig.16 PVD Nickel Silver Colored Stainless
Steel Sheets

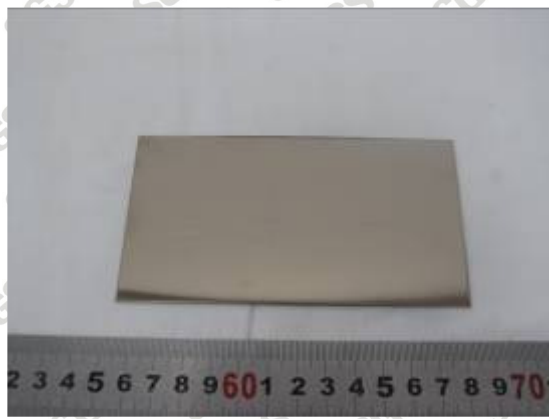


Fig.17 After Adhesive Power Test
PVD Nickel Silver Colored Stainless Steel
Sheets



Fig.18 After Adhesive Power Test
Close-up
PVD Nickel Silver Colored Stainless Steel
Sheets

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



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

NBML

SGS Standards Technical Services Co., Ltd.
Ningbo Branch

1-2,5/F West No.4 Building, Lingyun Industry Park, No.1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, China 315040 t (86-574) 87767006 f (86-574) 87901159 www.sgsgroup.com.cn
中国·宁波·国家高新区凌云路1177号凌云产业园4号楼西1-2,5层 邮编: 315040 t (86-574) 87767006 f (86-574) 87901159 e sgs.china@sgs.com

TEST REPORT

No. : NBMLM140700277

Date : Aug.05,2014

Page: 7 of 17

2. Test Item: Neutral Salt Spray Test

Test Method: GB/T 10125-2012

Test Conditions:

Concentration of solution collected: (50 ± 5) g/L NaCl

Chamber temperature: (35 ± 2) °C

Volume of salt solution collected: $(1.0 \sim 2.0)$ ml/ $(80 \text{cm}^2 \cdot \text{h})$

pH of collected solution at (25 ± 2) °C: 6.5~7.2

Exposure Period: 96h

Test Result(s):

Sample	Color	Result
PVD Colored Stainless Steel Sheets	Gold	No corrosion, rusting, color fading was found after test
	Rose Gold	No corrosion, rusting, color fading was found after test
	Bronze	No corrosion, rusting, color fading was found after test
	Coffee	No corrosion, rusting, color fading was found after test
	Black	No corrosion, rusting, color fading was found after test
	Nickel Silver	No corrosion, rusting, color fading was found after test

Test Photos:

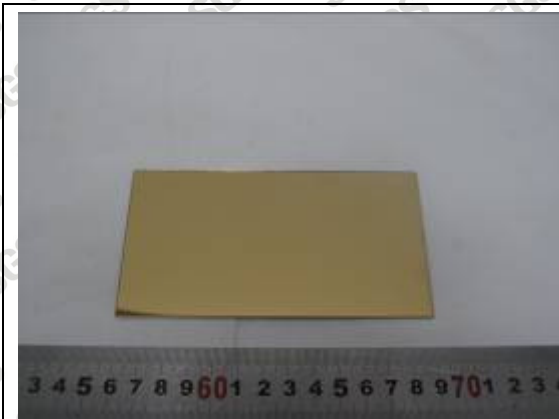


Fig.19 PVD Gold Colored Stainless Steel Sheets

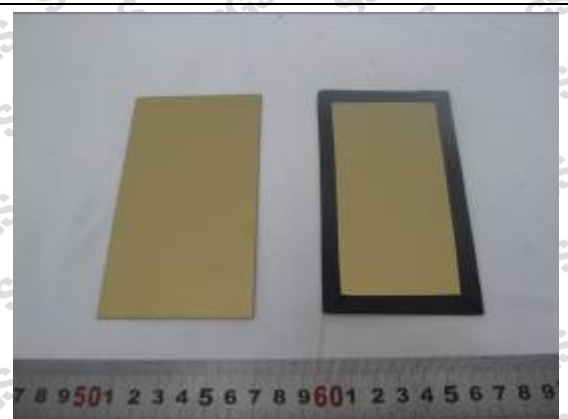


Fig.20 Reference sample Tested sample PVD Gold Colored Stainless Steel Sheets Neutral Salt Spray Test

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

TEST REPORT

No. : NBMLM140700277

Date : Aug.05,2014

Page: 8 of 17

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)83071443, or email: CN.Doccheck@sgs.com

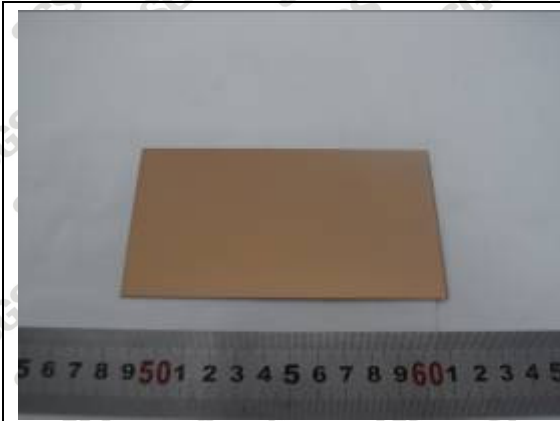


Fig.21 PVD Rose Gold Colored Stainless Steel Sheets

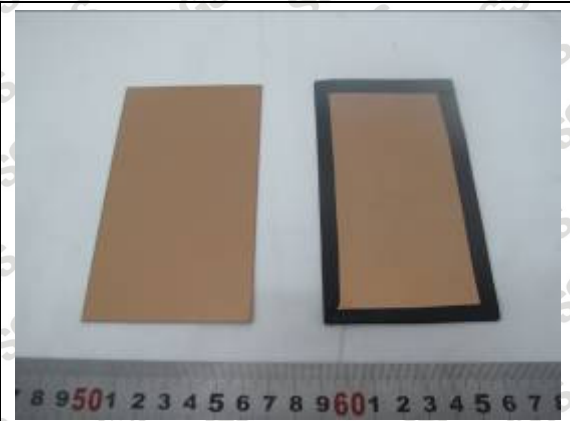


Fig.22 Reference sample Tested sample
PVD Rose Gold Colored Stainless Steel Sheets
Neutral Salt Spray Test

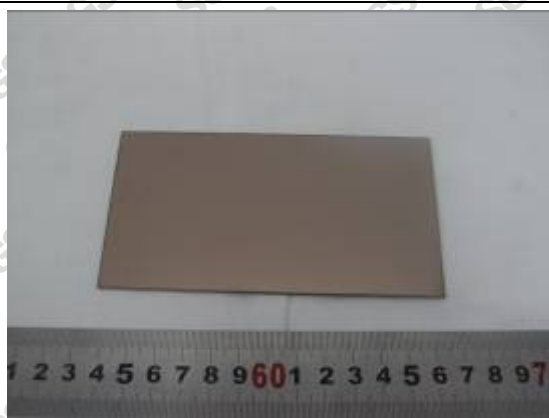


Fig.23 PVD Bronze Colored Stainless Steel Sheets

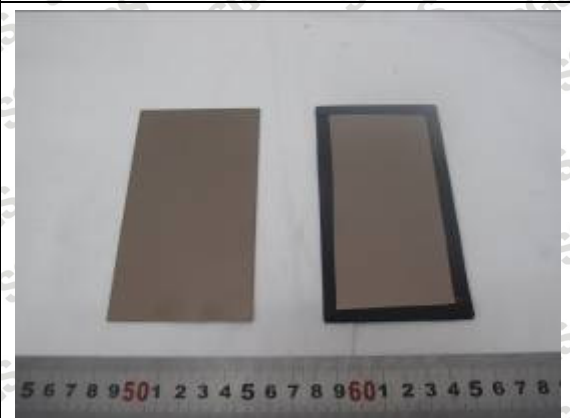


Fig.24 Reference sample Tested sample
PVD Bronze Colored Stainless Steel Sheets
Neutral Salt Spray Test

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



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

NBML

SGS-Standard Technical Services Co., Ltd.
Ningbo Branch

1-2,5/F West No. 4 Building, Lingyun Industry Park, No. 1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, China 315040 t (86-574) 87767006 f (86-574) 87901159 www.sgsgroup.com.cn
中国·宁波·国家高新区凌云路1177号凌云产业园4号楼西1-2,5层 邮编: 315040 t (86-574) 87767006 f (86-574) 87901159 e sgs.china@sgs.com

TEST REPORT

No. : NBMLM140700277

Date : Aug.05,2014

Page: 9 of 17

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)93071443, or email: CN.Doccheck@sgs.com

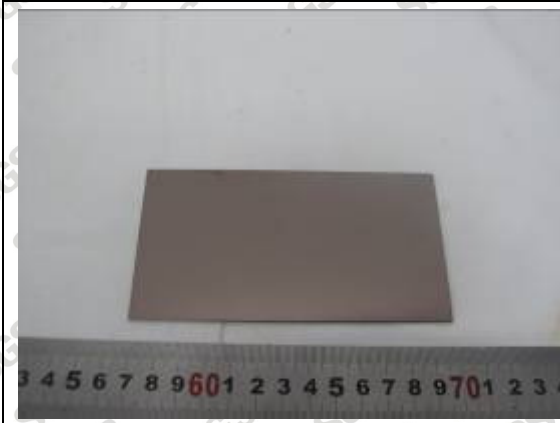


Fig.25 PVD Coffee Colored Stainless Steel Sheets

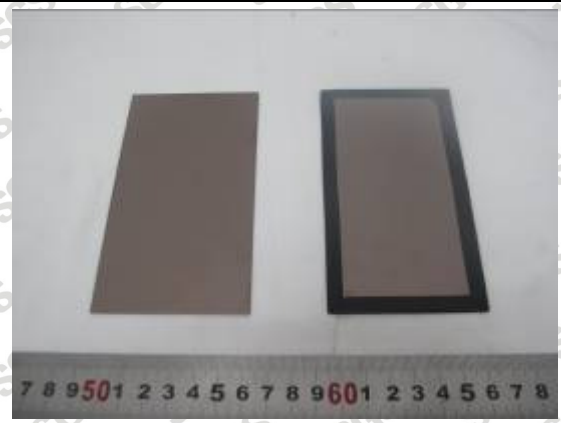


Fig.26 Reference sample Tested sample PVD Coffee Colored Stainless Steel Sheets Neutral Salt Spray Test

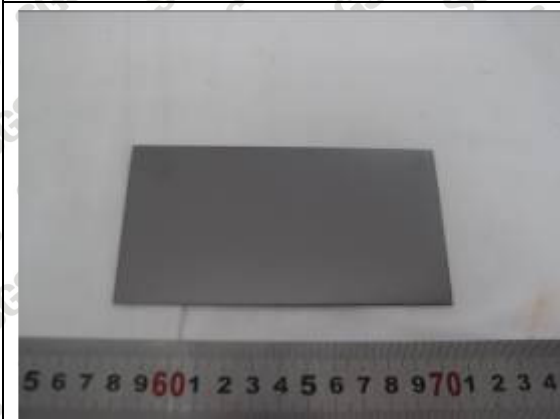


Fig.27 PVD Black Colored Stainless Steel Sheets

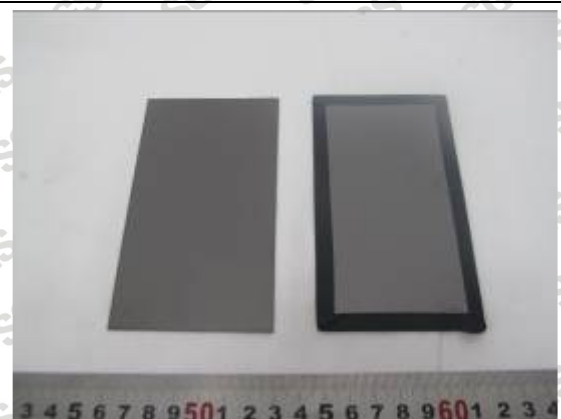


Fig.28 Reference sample Tested sample PVD Black Colored Stainless Steel Sheets Neutral Salt Spray Test

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



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

NBML

SGS-USA Standards Technical Services Co., Ltd.
Ningbo Branch

1-2,5/F West No. 4 Building, Lingyun Industry Park, No. 1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, China 315040 t (86-574) 87767006 f (86-574) 87901159 www.sgsgroup.com.cn
中国·宁波·国家高新区凌云路1177号凌云产业园4号楼西1-2,5层 邮编: 315040 t (86-574) 87767006 f (86-574) 87901159 e sgs.china@sgs.com

TEST REPORT

No. : NBMLM140700277

Date : Aug.05,2014

Page: 10 of 17

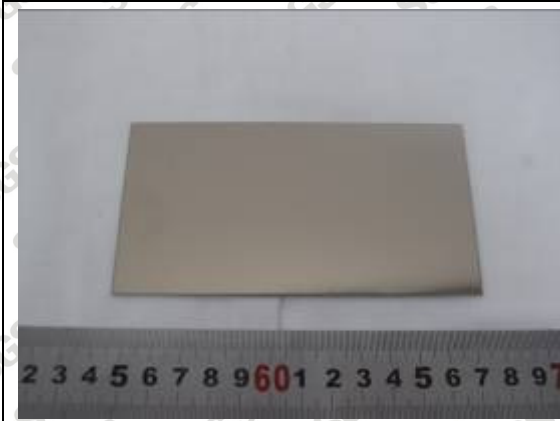


Fig.29 PVD Nickel Silver Colored Stainless Steel Sheets

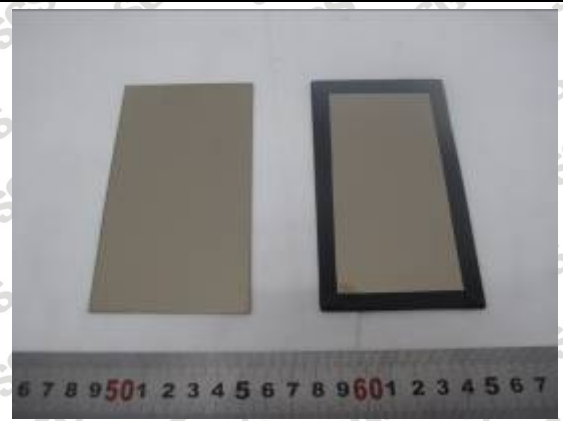


Fig.30 Reference sample Tested sample
PVD Nickel Silver Colored Stainless Steel Sheets
Neutral Salt Spray Test

3. Test Item: Chemical Resistance Test

Test Method: supplied by client, take a piece of cotton cloth and dip into alcohol, scrape on the metal plate 20 cycles within the same area, evaluate the color fading after test

Test Result(s):

Sample	Color	Result
PVD Colored Stainless Steel Sheets	Gold	No color fading was found after test
	Rose Gold	No color fading was found after test
	Bronze	No color fading was found after test
	Coffee	No color fading was found after test
	Black	No color fading was found after test
	Nickel Silver	No color fading was found after test

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

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)93071443, or email: CN.Doccheck@sgs.com



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

NBML

SGS-UTS Standards Technical Services Co., Ltd.
Ningbo Branch

1-2,5/F West No. 4 Building, Lingyun Industry Park, No.1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, China 315040 t (86-574) 87767006 f (86-574) 87901159 www.sgsgroup.com.cn
中国·宁波·国家高新区凌云路1177号凌云产业园4号楼西1-2,5层 邮编: 315040 t (86-574) 87767006 f (86-574) 87901159 e sgs.china@sgs.com

TEST REPORT

No. : NBMLM140700277

Date : Aug.05,2014

Page: 11 of 17

Test Photos:

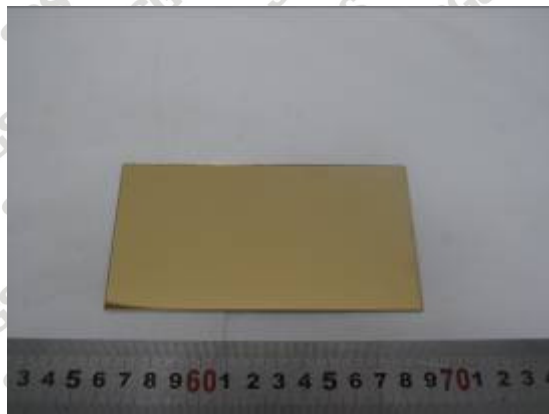


Fig.31 PVD Gold Colored Stainless Steel Sheets

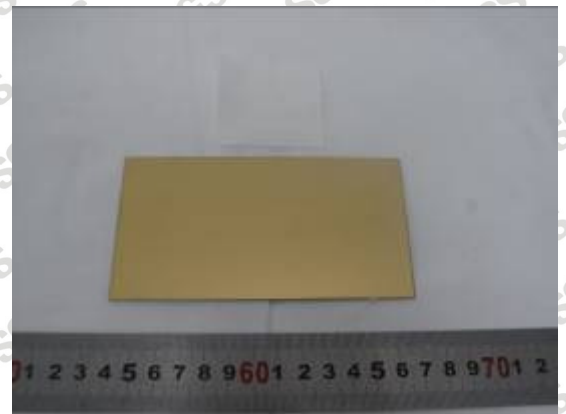


Fig.32 After Chemical Resistance Test PVD Gold Colored Stainless Steel Sheets

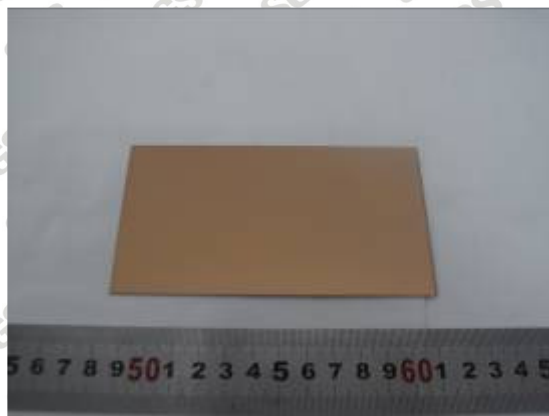


Fig.33 PVD Rose Gold Colored Stainless Steel Sheets



Fig.34 After Chemical Resistance Test PVD Rose Gold Colored Stainless Steel Sheets

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

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)93071443, or email: CN.Doccheck@sgs.com



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

NBML

SGS-Standard Technical Services Co., Ltd.
Ningbo Branch

1-2,5/F West No.4 Building, Lingyun Industry Park, No.1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, China 315040 t (86-574) 87767006 f (86-574) 87901159 www.sgsgroup.com.cn
中国·宁波·国家高新区凌云路1177号凌云产业园4号楼西1-2,5层 邮编: 315040 t (86-574) 87767006 f (86-574) 87901159 e sgs.china@sgs.com

TEST REPORT

No. : NBMLM140700277

Date : Aug.05,2014

Page: 12 of 17

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)93071443, or email: CN.Doccheck@sgs.com

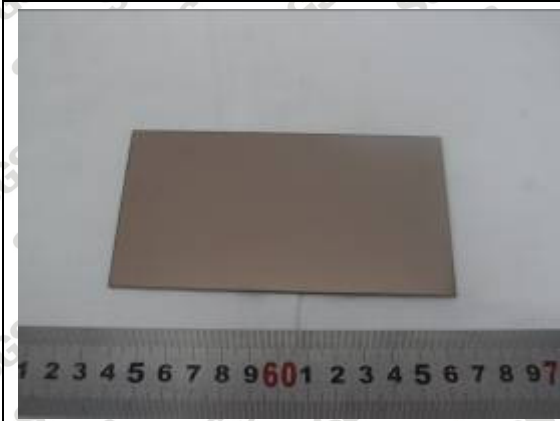


Fig.35 PVD Bronze Colored Stainless Steel Sheets

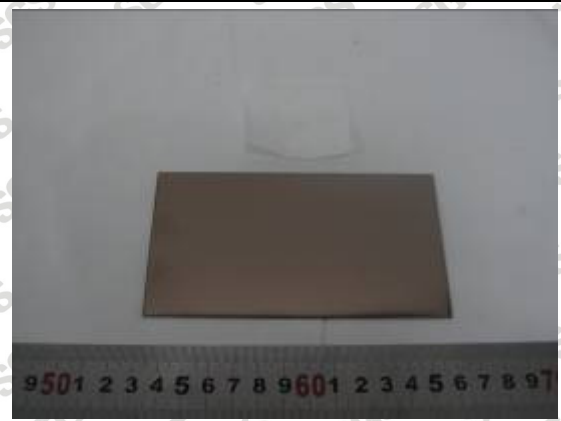


Fig.36 After Chemical Resistance Test PVD Bronze Colored Stainless Steel Sheets

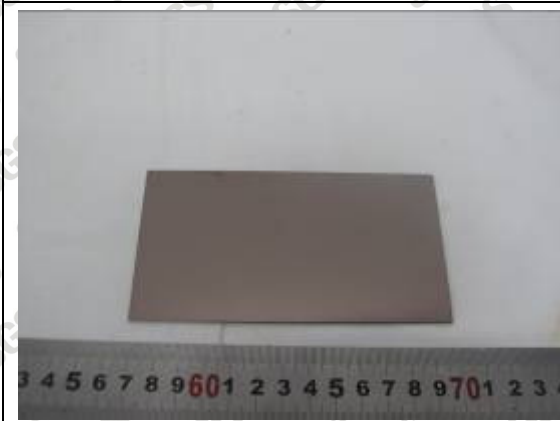


Fig.37 PVD Coffee Colored Stainless Steel Sheets

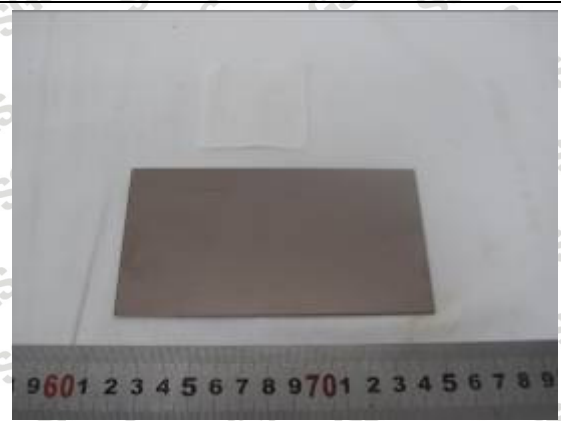


Fig.38 After Chemical Resistance Test PVD Coffee Colored Stainless Steel Sheets

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



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

NBML

SGS-Standard Technical Services Co., Ltd.
Ningbo Branch

1-2,5/F West No.4 Building, Lingyun Industry Park, No.1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, China 315040 t (86-574) 87767006 f (86-574) 87901159 www.sgsgroup.com.cn
中国·宁波·国家高新区凌云路1177号凌云产业园4号楼西1-2,5层 邮编: 315040 t (86-574) 87767006 f (86-574) 87901159 e sgs.china@sgs.com

TEST REPORT

No. : NBMLM140700277

Date : Aug.05,2014

Page: 13 of 17

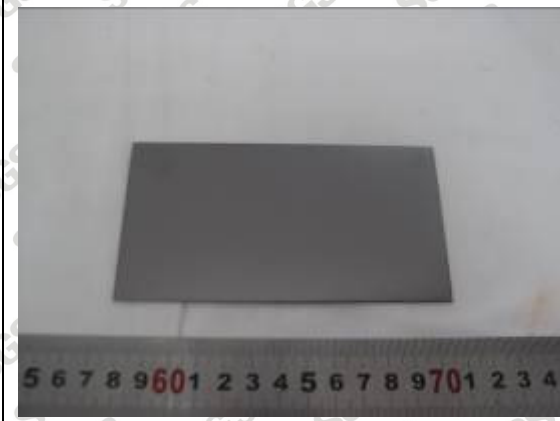


Fig.39 PVD Black Colored Stainless Steel Sheets

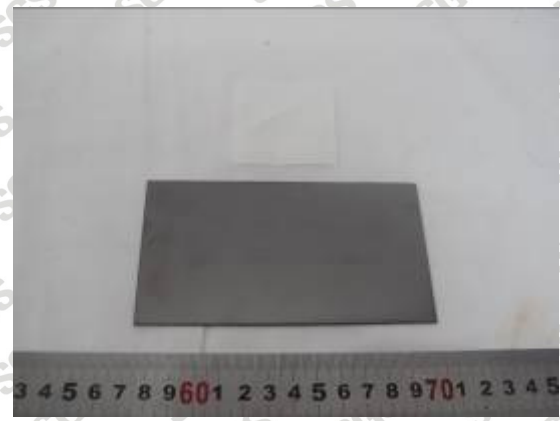


Fig.40 After Chemical Resistance Test PVD Black Colored Stainless Steel Sheets

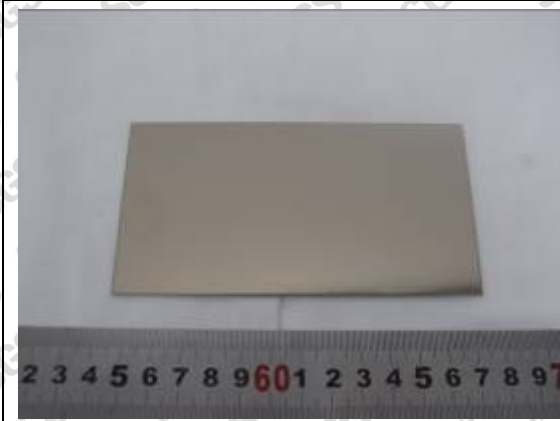


Fig.41 PVD Nickel Silver Colored Stainless Steel Sheets



Fig.42 After Chemical Resistance Test PVD Nickel Silver Colored Stainless Steel Sheets

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

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)93071443, or email: CN.Doccheck@sgs.com



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

NBML

SGS-Standard Technical Services Co., Ltd.
Ningbo Branch

1-2,5/F West No.4 Building, Lingyun Industry Park, No.1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, China 315040 t (86-574) 87767006 f (86-574) 87901159 www.sgsgroup.com.cn
中国·宁波·国家高新区凌云路1177号凌云产业园4号楼西1-2,5层 邮编: 315040 t (86-574) 87767006 f (86-574) 87901159 e sgs.china@sgs.com

TEST REPORT

No. : NBMLM140700277

Date : Aug.05,2014

Page: 14 of 17

4. Test Item: Cross section +SEM inspection

Test Method: Per IPC TM650 2.1.1、GB/T 15749-2008 and client's requirement.

Test Result(s):

Sample Description	Test Position	Plating Thickness (μm)			
		H1	H2	H3	average
PVD Colored Stainless Steel Sheets	Gold	0.3349	0.3489	0.2931	0.3256
	Rose Gold	0.1675	0.1396	0.1814	0.1628
	Bronze	0.1954	0.2233	0.2233	0.2140
	Coffee	0.1535	0.1814	0.1814	0.1721
	Black	0.2373	0.2512	0.2512	0.2466
	Nickel Silver	0.3629	0.3908	0.5303	0.4280

Test Photos:

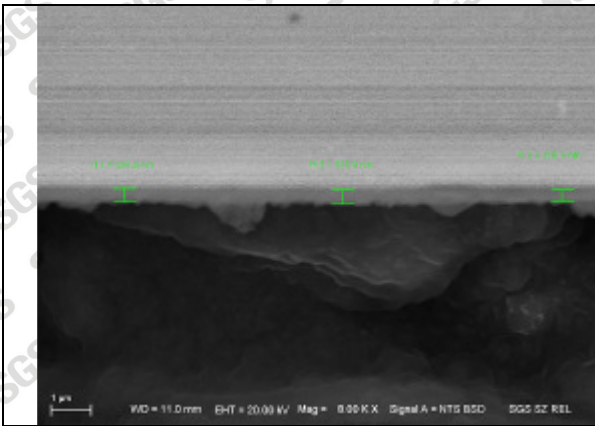


Fig.43 SEM observation –Gold-8000X

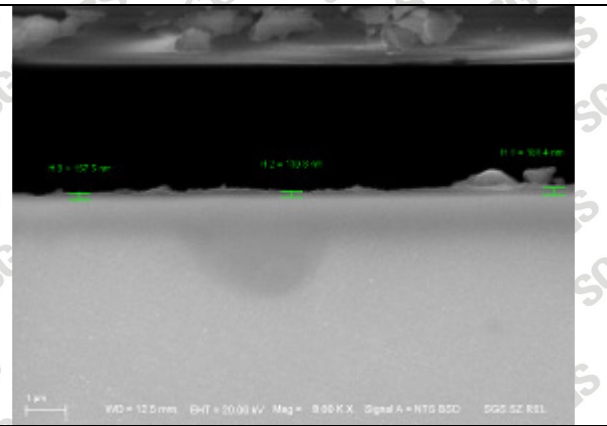


Fig.44 SEM observation –Rose Gold-8000X

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



SGS-USA Standards Technical Services Co., Ltd.
Ningbo Branch

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

NBML

1-2,5/F West No. 4 Building, Lingyun Industry Park, No. 1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, China 315040 t (86-574) 87767006 f (86-574) 87901159 www.sgsgroup.com.cn
中国·宁波·国家高新区凌云路1177号凌云产业园4号楼西1-2,5层 邮编: 315040 t (86-574) 87767006 f (86-574) 87901159 e sgs.china@sgs.com

TEST REPORT

No. : NBMLM140700277

Date : Aug.05,2014

Page: 15 of 17

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)93071443, or email: CN.Doccheck@sgs.com

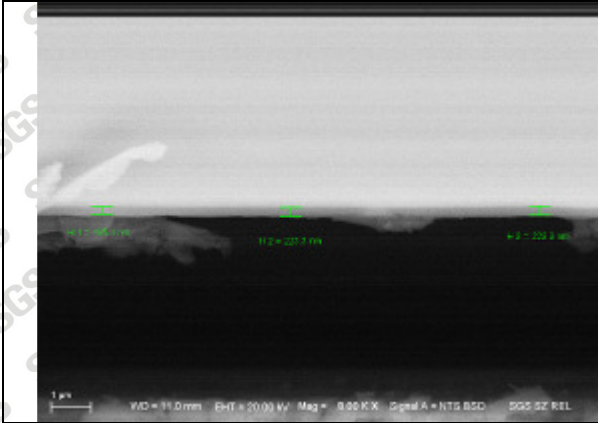


Fig.45 SEM observation –Bronze-8000X

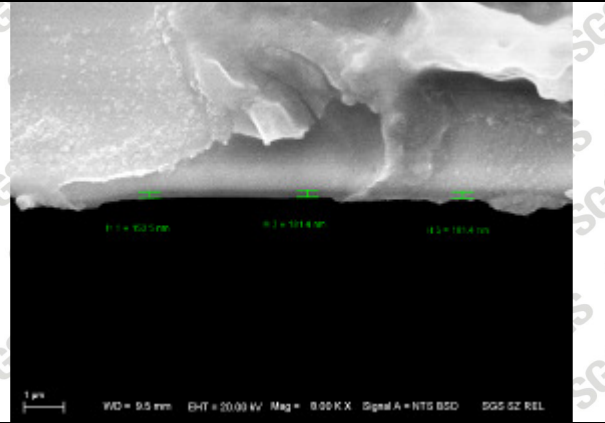


Fig.46 SEM observation –Coffee-8000X

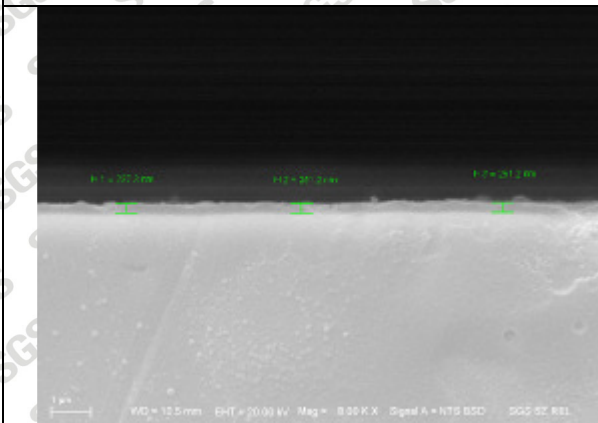


Fig.47 SEM observation – Black-8000X

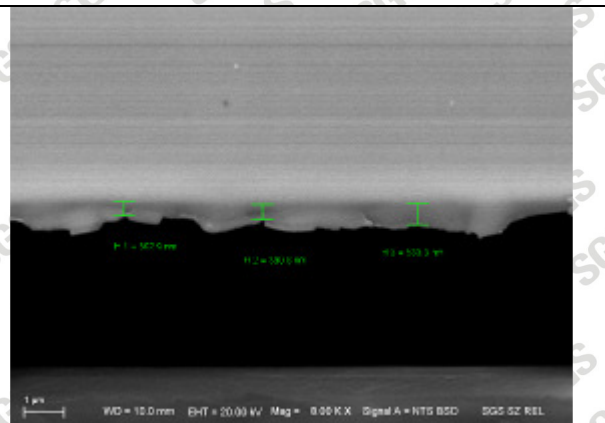


Fig.48 SEM observation – Nickel Silver-8000X

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



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

NBML

SGS-Standard Technical Services Co., Ltd.
Ningbo Branch

1-2,5/F West No. 4 Building, Lingyun Industry Park, No. 1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, China 315040 t (86-574) 87767006 f (86-574) 87901159 www.sgsgroup.com.cn
中国·宁波·国家高新区凌云路1177号凌云产业园4号楼西1-2,5层 邮编: 315040 t (86-574) 87767006 f (86-574) 87901159 e sgs.china@sgs.com

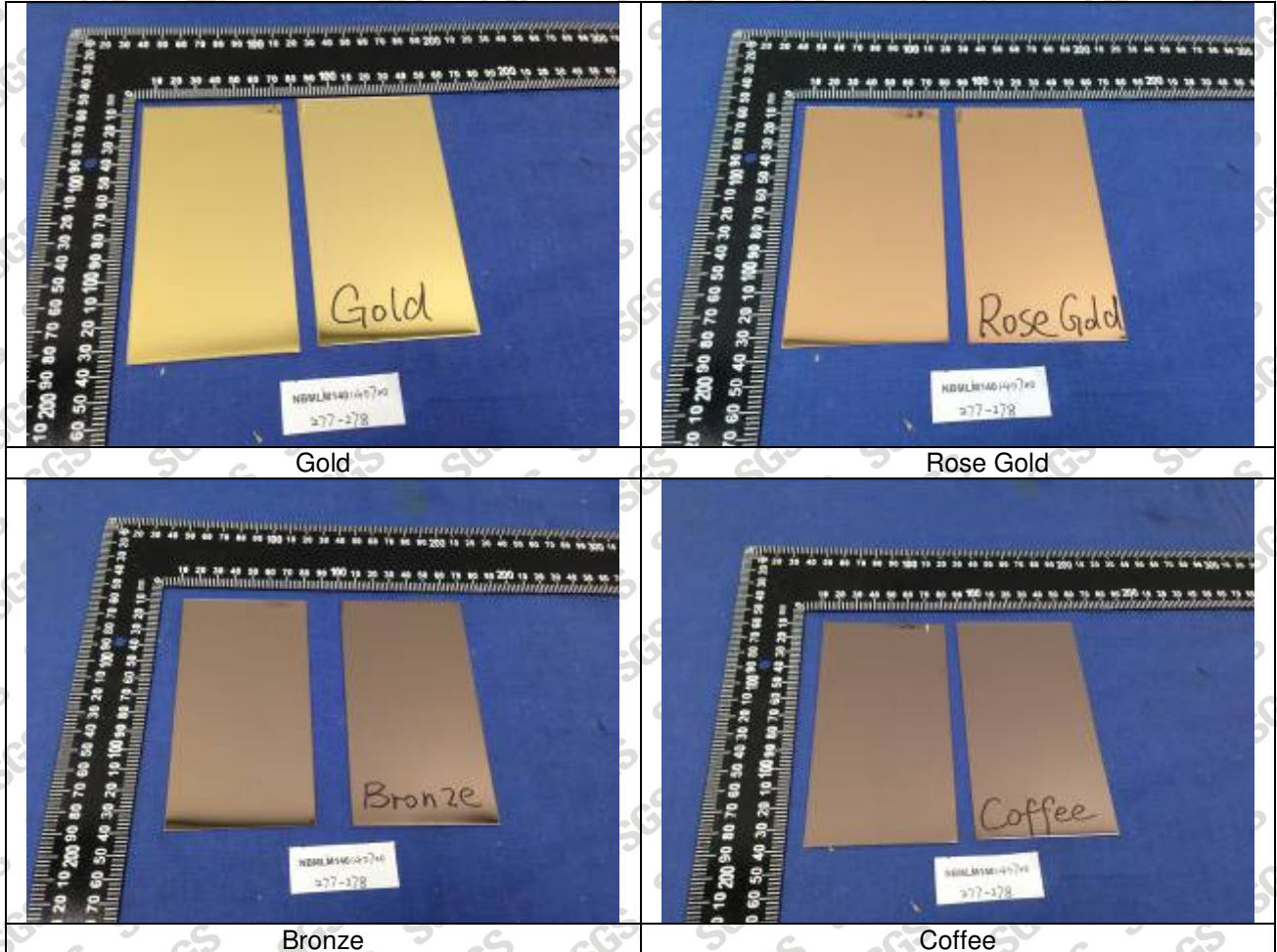
TEST REPORT

No. : NBMLM140700277

Date : Aug.05,2014

Page: 16 of 17

Photo:



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

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)93071443, or email: CN.Doccheck@sgs.com



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

NBML

SGS Standards Technical Services Co., Ltd.
Ningbo Branch

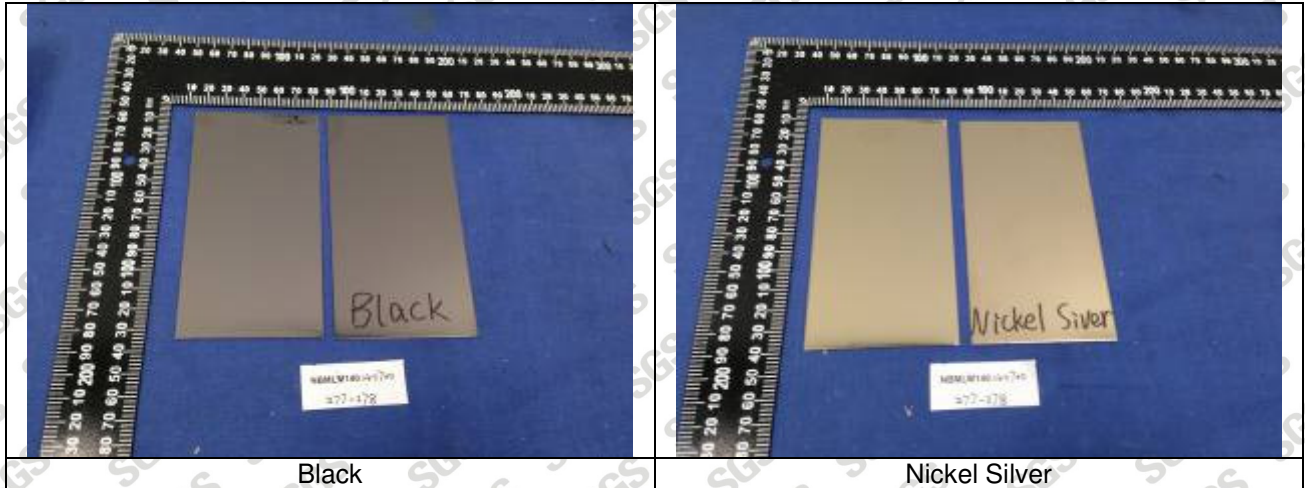
1-2,5/F West No. 4 Building, Lingyun Industry Park, No. 1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, China 315040 t (86-574) 87767006 f (86-574) 87901159 www.sgsgroup.com.cn
中国·宁波·国家高新区凌云路1177号凌云产业园4号楼西1-2,5层 邮编: 315040 t (86-574) 87767006 f (86-574) 87901159 e sgs.china@sgs.com

TEST REPORT

No. : NBMLM140700277

Date : Aug.05,2014

Page: 17 of 17



- All above tests were carried out by a SGS laboratory.

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

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)93071443, or email: CN.Doccheck@sgs.com



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

NBML

SGS-USA Standards Technical Services Co., Ltd.
Ningbo Branch

1-2,5/F West No.4 Building, Lingyun Industry Park, No.1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, China 315040 t (86-574) 87767006 f (86-574) 87901159 www.sgsgroup.com.cn
中国·宁波·国家高新区凌云路1177号凌云产业园4号楼西1-2,5层 邮编: 315040 t (86-574) 87767006 f (86-574) 87901159 e sgs.china@sgs.com