

## **Test Report**

美台磁材有限公司

A&T MAGNETICS CO., LTD.

台北縣汐止市康寧街169巷23號8樓之1

8F-1, NO. 23, LANE 169, KANG NING ST., SIJHIH CITY, TAIPEI COUNTRY,

TAIWAN, R. O. C.

以下測試樣品係由客户送樣,且由客户聲稱並經客户確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description)

樣品型號(Style/Item No.)

買主/訂單號碼(Buyer/Order No.)

收件日期(Sample Receiving Date)

測試期間(Testing Period)

: SOFT FERRITE CORE

AT2.1K

號碼(No.): CE/2008/93005

: SGS-013

: 2008/09/11

2008/09/11 TO 2008/09/18

#### 測試需求(Test Requested)

測試方法(Test Method)

- : 參照 RoHS 2002/95/EC 及其修定指令要求. (In accordance with the RoHS Directive 2002/95/EC, and its amendment directives).
- : 参考IEC 62321/2nd CDV (111/95/CDV)方法檢測. (With reference to IEC 62321/2nd CDV (111/95/CDV). Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products).

日期(Date): 2008/09/18

頁數(Page): 1 of 3

- (1) 用感應藕合電漿原子發射光譜儀檢測鎬含量. / Determination of Cadmium by ICP-AES.
- (2) 用感應藕合電漿原子發射光譜儀檢測鉛含量. / Determination of Lead by ICP-AES.
- (3) 用感應藕合電漿原子發射光譜儀檢測汞含量. / Determination of Mercury by ICP-AES.
- (4) 針對金屬材質之樣品,用Spot test / boiling water extraction方法檢測 六價鉻含量. / Determination of Hexavalent Chromium for metallic samples by Spot test / boiling water extraction Method.
- 請見下一頁 (Please refer to next pages).
- 根據客户所提供的樣品,其鎬、鉛、汞及六價鉻的測試結果符合RoHS(2002/95/EC) 及其修定指令之要求 (Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury and Hexavalent Chromium Cr(VI) are compliant with the limits of RoHS Directive 2002/95/EC and its subsequent amendments).

測試結果(Test Results) 結論(Conclusion)

Nicole Chien / Supervisor Signed for and on behalf of SGS TAIWAN LTD. **Chemical Laboratory - Taipei** 

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 $8F\mbox{-}1$  , No. 23, LANE 169, KANG NING ST., SIJHIH CITY, TAIPEI COUNTRY,

號碼(No.): CE/2008/93005

TAIWAN, R. O. C.

#### 測試結果(Test Results) 單位(Unit): mg/kg

測試項目	測試方法 Method	結果 (Result)	方法偵測 極限値	RoHS 限値
(Test Items)	(Refer to)	No.1	(MDL)	(Limit)
鎬 / Cadmium (Cd)	(1)	n.d.	2	100
鉛 / Lead (Pb)	(2)	14	2	1000
汞 / Mercury (Hg)	(3)	n.d.	2	1000
六價鉻 / Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	See Note 4	#

日期(Date): 2008/09/18

頁數(Page): 2 of 3

#### 測試部位描述 (TEST PART DESCRIPTION):

NO.1 : 鐵灰色金屬 (IRON-GRAY METAL)

#### 備註(Note):

- 1. mg/kg = ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),

Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);

The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.

(當該測項無法確認時,測試樣品可藉由boiling-water-extraction測試方法進一步確認)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),

Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);

the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with  $50 \text{ cm}^2$  sample surface area.

該溶液濃度≧0.02 mg/kg with 50 cm2 (sample surface area)

5. # = Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as not comply with RoHS requirement. (Positive表示測試區域之六價鉻不符合RoHS要求)

Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as comply with RoHS requirement. (Negative表示測試區域之六價鉻符合RoHS要求)

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SGS Taiwan Ltd.



### 測試報告 Toot Papart

號碼(No.): CE/2008/93005 日期(Date): 2008/09/18 頁數(Page): 3 of 3

**Test Report** 

美台磁材有限公司

A&T MAGNETICS CO., LTD.

台北縣汐止市康寧街169巷23號8樓之1

 $8F\mbox{-}1$  , No. 23, LANE 169, KANG NING ST., SIJHIH CITY, TAIPEI COUNTRY, TAIWAN, R. O. C.



\*\* 報告結尾 \*\*

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樣品名稱(Sample Description)

樣品型號(Style/Item No.)

買主/訂單號碼(Buyer/Order No.)

收件日期(Sample Receiving Date)

測試期間(Testing Period)

: SOFT FERRITE CORE

: AT4K

: SGS-016

號碼(No.): CE/2008/93009

: 2008/09/11

: 2008/09/11 TO 2008/09/18

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#### 測試需求(Test Requested)

測試方法(Test Method)

: 參照 RoHS 2002/95/EC 及其修定指令要求. (In accordance with the RoHS Directive 2002/95/EC, and its amendment directives).

日期(Date): 2008/09/18

頁數(Page): 1 of 3

- : 参考IEC 62321/2nd CDV (111/95/CDV)方法檢測. (With reference to IEC 62321/2nd CDV (111/95/CDV). Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products).
  - (1) 用感應藕合電漿原子發射光譜儀檢測鎬含量. / Determination of Cadmium by ICP-AES.
  - (2) 用感應藕合電漿原子發射光譜儀檢測鉛含量. / Determination of Lead by ICP-AFS.
  - (3) 用感應藕合電漿原子發射光譜儀檢測汞含量. / Determination of Mercury by ICP-AES.
  - (4) 針對金屬材質之樣品,用Spot test / boiling water extraction方法檢測 六價鉻含量. / Determination of Hexavalent Chromium for metallic samples by Spot test / boiling water extraction Method.
- : 請見下一頁 (Please refer to next pages).
- · 根據客户所提供的樣品,其鎬、鉛、汞及六價鉻的測試結果符合RoHS(2002/95/EC) 及其修定指令之要求 (Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury and Hexavalent Chromium Cr(VI) are compliant with the limits of RoHS Directive 2002/95/EC and its subsequent amendments).

測試結果(Test Results) 結論(Conclusion)

Nicole Chien / Supervisor
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

## **Test Report**

美台磁材有限公司

A&T MAGNETICS CO., LTD.

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8F-1, NO. 23, LANE 169, KANG NING ST., SIJHIH CITY, TAIPEI COUNTRY,

號碼(No.): CE/2008/93009

TAIWAN, R. O. C.

#### 測試結果(Test Results) 單位(Unit): mg/kg

測試項目	測試方法 Method	結果 (Result)	方法偵測 極限値	RoHS 限值
(Test Items)	(Refer to)	No.1	(MDL)	(Limit)
鎬 / Cadmium (Cd)	(1)	n.d.	2	100
鉛 / Lead (Pb)	(2)	9	2	1000
汞 / Mercury (Hg)	(3)	n.d.	2	1000
六價鉻 / Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	See Note 4	#

日期(Date): 2008/09/18

#### 測試部位描述 (TEST PART DESCRIPTION):

NO.1 : 鐵灰色金屬 (IRON-GRAY METAL)

#### 備註(Note):

- 1. mg/kg = ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),

Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);

The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.

(當該測項無法確認時,測試樣品可藉由boiling-water-extraction測試方法進一步確認)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),

Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);

the detected concentration in boiling-water-extraction solution is equal or greater than  $0.02~\rm mg/kg$  with  $50~\rm cm^2$  sample surface area.

該溶液濃度≧0.02 mg/kg with 50 cm² (sample surface area)

5. # = Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as not comply with RoHS requirement. (Positive表示測試區域之六價鉻不符合RoHS要求)
Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as comply with RoHS requirement. (Negative表示測試區域之六價鉻符合RoHS要求)

頁數(Page): 2 of 3

# **Test Report**

號碼(No.): CE/2008/93009 日期(Date): 2008/09/18 頁數(Page): 3 of 3

美台磁材有限公司

A&T MAGNETICS CO., LTD.

台北縣汐止市康寧街169巷23號8樓之1

 $8F\mbox{-}1$  , No. 23, LANE 169, KANG NING ST., SIJHIH CITY, TAIPEI COUNTRY, TAIWAN, R. O. C.



\*\* 報告結尾 \*\*



## **Test Report**

美台磁材有限公司

A&T MAGNETICS CO., LTD.

台北縣汐止市康寧街169巷23號8樓之1

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TAIWAN, R. O. C.

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樣品名稱(Sample Description)

樣品型號(Style/Item No.)

買主/訂單號碼(Buyer/Order No.)

收件日期(Sample Receiving Date)

測試期間(Testing Period)

: SOFT FERRITE CORE

AT5K/PERM5000

: SGS-012

號碼(No.): CE/2008/93008

: 2008/09/11

2008/09/11 TO 2008/09/18

#### 測試需求(Test Requested)

測試方法(Test Method)

: 參照 RoHS 2002/95/EC 及其修定指令要求. (In accordance with the RoHS Directive 2002/95/EC, and its amendment directives).

日期(Date): 2008/09/18

頁數(Page): 1 of 3

- : 参考IEC 62321/2nd CDV (111/95/CDV)方法檢測. (With reference to IEC 62321/2nd CDV (111/95/CDV). Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products).
  - (1) 用感應藕合電漿原子發射光譜儀檢測鎬含量. / Determination of Cadmium by ICP-AES.
  - (2) 用感應藕合電漿原子發射光譜儀檢測鉛含量. / Determination of Lead by ICP-AES.
  - (3) 用感應藕合電漿原子發射光譜儀檢測汞含量. / Determination of Mercury by ICP-AES.
  - (4) 針對金屬材質之樣品,用Spot test / boiling water extraction方法檢測 六價鉻含量. / Determination of Hexavalent Chromium for metallic samples by Spot test / boiling water extraction Method.
- 請見下一頁 (Please refer to next pages).
- 根據客户所提供的樣品,其鎬、鉛、汞及六價鉻的測試結果符合RoHS(2002/95/EC) 及其修定指令之要求 (Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury and Hexavalent Chromium Cr(VI) are compliant with the limits of RoHS Directive 2002/95/EC and its subsequent amendments).

測試結果(Test Results) 結論(Conclusion)

Nicole Chien / Supervisor Signed for and on behalf of SGS TAIWAN LTD. **Chemical Laboratory - Taipei** 

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8F-1, NO. 23, LANE 169, KANG NING ST., SIJHIH CITY, TAIPEI COUNTRY,

號碼(No.): CE/2008/93008

TAIWAN, R. O. C.

#### 測試結果(Test Results) 單位(Unit): mg/kg

測試項目	測試方法 Method	結果 (Result)	方法偵測 極限値	RoHS 限值
(Test Items)	(Refer to)	No.1	何至「K·1回 (MDL)	(Limit)
鎬 / Cadmium (Cd)	(1)	n.d.	2	100
鉛 / Lead (Pb)	(2)	11	2	1000
汞 / Mercury (Hg)	(3)	n.d.	2	1000
六價鉻 / Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	See Note 4	#

日期(Date): 2008/09/18

頁數(Page): 2 of 3

#### 測試部位描述 (TEST PART DESCRIPTION):

NO.1 : 鐵灰色金屬 (IRON-GRAY METAL)

#### 備註(Note):

- 1. mg/kg = ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),

Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);

The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.

(當該測項無法確認時,測試樣品可藉由boiling-water-extraction測試方法進一步確認)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),

Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);

the detected concentration in boiling-water-extraction solution is equal or greater than  $0.02~\rm mg/kg$  with  $50~\rm cm^2$  sample surface area.

該溶液濃度≧0.02 mg/kg with 50 cm2 (sample surface area)

5. # = Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as not comply with RoHS requirement. (Positive表示測試區域之六價鉻不符合RoHS要求)
Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as comply with RoHS requirement. (Negative表示測試區域之六價鉻符合RoHS要求)

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SGS Taiwan Ltd.



# 測試報告 **Test Report**

號碼(No.): CE/2008/93008 頁數(Page): 3 of 3 日期(Date): 2008/09/18

美台磁材有限公司

A&T MAGNETICS CO., LTD.

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TAIWAN, R. O. C.



報告結尾 \*\*

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TAIWAN, R. O. C.

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樣品型號(Style/Item No.)

買主/訂單號碼(Buyer/Order No.)

收件日期(Sample Receiving Date)

測試期間(Testing Period)

: SOFT FERRITE CORE

AT7.5K/PERM7500

: SGS-014

號碼(No.): CE/2008/93007

: 2008/09/11

2008/09/11 TO 2008/09/18

#### 測試需求(Test Requested)

測試方法(Test Method)

- : 參照 RoHS 2002/95/EC 及其修定指令要求. (In accordance with the RoHS Directive 2002/95/EC, and its amendment directives).
- : 参考IEC 62321/2nd CDV (111/95/CDV)方法檢測. (With reference to IEC 62321/2nd CDV (111/95/CDV). Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products).

日期(Date): 2008/09/18

頁數(Page): 1 of 3

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- (3) 用感應藕合電漿原子發射光譜儀檢測汞含量. / Determination of Mercury by ICP-AES.
- (4) 針對金屬材質之樣品,用Spot test / boiling water extraction方法檢測 六價鉻含量. / Determination of Hexavalent Chromium for metallic samples by Spot test / boiling water extraction Method.
- 請見下一頁 (Please refer to next pages).
- 根據客户所提供的樣品,其鎬、鉛、汞及六價鉻的測試結果符合RoHS(2002/95/EC) 及其修定指令之要求 (Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury and Hexavalent Chromium Cr(VI) are compliant with the limits of RoHS Directive 2002/95/EC and its subsequent amendments).

測試結果(Test Results) 結論(Conclusion)

Nicole Chien / Supervisor Signed for and on behalf of SGS TAIWAN LTD. **Chemical Laboratory - Taipei** 

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## **Test Report**

美台磁材有限公司

A&T MAGNETICS CO., LTD.

台北縣汐止市康寧街169巷23號8樓之1

8F-1, NO. 23, LANE 169, KANG NING ST., SIJHIH CITY, TAIPEI COUNTRY,

號碼(No.): CE/2008/93007

TAIWAN, R. O. C.

#### 測試結果(Test Results) 單位(Unit): mg/kg

測試項目	測試方法 Method	結果 (Result)	方法偵測 極限値	RoHS 限値
(Test Items)	(Refer to)	No.1	(MDL)	(Limit)
鎬 / Cadmium (Cd)	(1)	n.d.	2	100
鉛 / Lead (Pb)	(2)	14	2	1000
汞 / Mercury (Hg)	(3)	n.d.	2	1000
六價鉻 / Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	See Note 4	#

日期(Date): 2008/09/18

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#### 測試部位描述 (TEST PART DESCRIPTION):

NO.1 : 鐵灰色金屬 (IRON-GRAY METAL)

#### 備註(Note):

- 1. mg/kg = ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),

Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);

The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.

(當該測項無法確認時,測試樣品可藉由boiling-water-extraction測試方法進一步確認)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),

Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);

the detected concentration in boiling-water-extraction solution is equal or greater than  $0.02~\rm mg/kg$  with  $50~\rm cm^2$  sample surface area.

該溶液濃度≧0.02 mg/kg with 50 cm² (sample surface area)

5. # = Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as not comply with RoHS requirement. (Positive表示測試區域之六價鉻不符合RoHS要求)
Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as comply with RoHS requirement. (Negative表示測試區域之六價鉻符合RoHS要求)

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SGS Taiwan Ltd



# 測試報告 **Test Report**

號碼(No.): CE/2008/93007 頁數(Page): 3 of 3 日期(Date): 2008/09/18

美台磁材有限公司 A&T MAGNETICS CO., LTD.

台北縣汐止市康寧街169巷23號8樓之1 8F-1, NO. 23, LANE 169, KANG NING ST., SIJHIH CITY, TAIPEI COUNTRY,

TAIWAN, R. O. C.



報告結尾 \*\*

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## **Test Report**

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8F-1, NO. 23, LANE 169, KANG NING ST., SIJHIH CITY, TAIPEI COUNTRY,

TAIWAN, R. O. C.

以下測試樣品係由客户送樣, 且由客户聲稱並經客户確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description)

樣品型號(Style/Item No.)

買主/訂單號碼(Buyer/Order No.)

收件日期(Sample Receiving Date)

測試期間(Testing Period)

: SOFT FERRITE CORE

: AT10K/PERM10000

: SGS-011

號碼(No.): CE/2008/77842

: 2008/07/29

: 2008/07/29 TO 2008/08/05

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測試需求(Test Requested)

測試方法(Test Method)

- : 參照 RoHS 2002/95/EC 及其修定指令要求. (In accordance with the RoHS Directive 2002/95/EC, and its amendment directives).
  - 参考IEC 62321/2nd CDV (111/95/CDV)方法檢測. (With reference to IEC 62321/2nd CDV (111/95/CDV). Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products).

日期(Date): 2008/08/05

頁數(Page): 1 of 3

- (1) 用感應藕合電漿原子發射光譜儀檢測鎬含量. / Determination of Cadmium by ICP-AES.
- (2) 用感應藕合電漿原子發射光譜儀檢測鉛含量. / Determination of Lead by ICP-AFS.
- (3) 用感應藕合電漿原子發射光譜儀檢測汞含量. / Determination of Mercury by ICP-AES.
- (4) 針對金屬材質之樣品,用Spot test / boiling water extraction方法檢測 六價鉻含量. / Determination of Hexavalent Chromium for metallic samples by Spot test / boiling water extraction Method.

測試結果(Test Results)

結論(Conclusion)

Nicole Chien / Supervisor
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

: 請見下一頁 (Please refer to next pages).

: 根據客户所提供的樣品,其鎬、鉛、汞及六價鉻的測試結果符合RoHS(2002/95/EC) 及其修定指令之要求 (Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury and Hexavalent Chromium Cr(VI) are compliant with the limits of RoHS Directive 2002/95/EC and its subsequent amendments).

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### **Test Report**

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美台磁材有限公司

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#### 測試結果(Test Results) 單位(Unit): mg/kg

測試項目	測試方法 Method	結果 (Result)	方法偵測 極限値	RoHS 限値
(Test Items)	(Refer to)	No.1	(MDL)	(Limit)
鎬 / Cadmium (Cd)	(1)	n.d.	2	100
鉛 / Lead (Pb)	(2)	n.d.	2	1000
汞 / Mercury (Hg)	(3)	n.d.	2	1000
六價鉻 / Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	See Note 4	#

#### 測試部位描述 (TEST PART DESCRIPTION):

NO.1 : 鐵灰色金屬 (IRON-GRAY METAL)

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