











TEST CERTIFICATES

3RD PARTY LABORATORIES



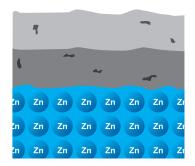




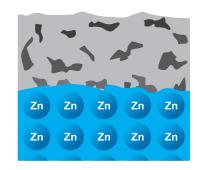


TEST CERTIFICATES SURFACE TREATMENT

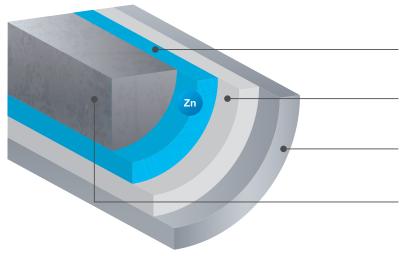
BDN® Ruspert Coating consists of multiple layers of specially formulated coatings that can easily withstand 1000hrs of salt spray test (AS 2331.3.1-2001) and 15 Kesternich cycles (DIN50018 2.0 SFW)



BDN® Ruspert Coating



Conventional Coating



Special Zinc Treatment

Salt Resistant Base Coat

Acid Resistant Topcoat

Carbon Steel

Coating Thickness: 18-25um





Report

No : DK-22-01076A

Page

No : 1

OF

Date of Report : Jan. 9, 2023

BROADEN WORLDWIDE CO., LTD.

No. 47-37, Jiahua Rd., Gangshan Dist, Kaohsiung City 820104, Taiwan (R.O.C)

Product Name

Self drilling Screw

Product Type

SDHC1019C3N(10-16x19)

Product Submitted By

BROADEN WORLDWIDE CO., LTD.

Date of Sample Received

Oct. 28, 2022

Date of Testing

Nov. 1, 2022~Dec. 13, 2022

Remark

The information mentioned in the above section and the following

report content marks # are provided by Client.

(Exclude Product Name, Product Submitted By, Date of Sample Received

and Date of Testing)

The laboratory tests according to the test requests and samples provided by client, and the results are as follows:

Test Request: Salt Spray Test Test Method: AS 2331.3.1 (2001)

Quantity: 4

Test Duration: 1000 Hours (according to client's requirements)

Test Result:

Visual Observation

No red rust was found on the head of all samples

(As show in Fig. 4)

Test Condition:

Test Equipment	ERICHSEN MODEL 606/400
Test Temperature (°C)	35 ± 2
NaCl solution (%)	5 ± 1
The pH of the Salt Solution	$6.8 \sim 6.9$
Atomization and Quantity of Fog (ml/hr/80cm ²)	1.3 ~ 1.7
The Specific Gravity of the Salt Solution	$1.031 \sim 1.033$
Method of Supporting Specimens	As show in Fig. 2

Remark: Test location is the same as the laboratory address.

---- 1 -----

The required specification(s) offered in this test report is/are for reference only. The conformity judgment is at the Applicant's final verdict.

SGS Taiwan Ltd.

SBS Taiwan Ltd. No.700, Sec. 3, Yunlin Bd., Dounan Township, Yunlin County 630, Taiwan/雲林縣斗南鎮雲林路3段700號台灣檢驗科技股份有限公司 t (886-5) 595-2300 f (886-5) 595-2336 www.sgs.com.tw



Report No: DK-22-01076A No : 2 OF Page

Date of Report : Jan. 9, 2023

Sample Photos:



Fig. 1: Received samples

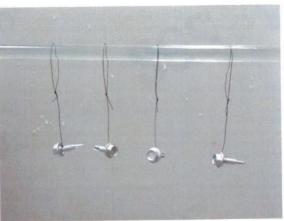


Fig. 2: Method of Supporting specimens



Fig. 3: Before test



Fig. 3: After test

- * The Test Report DK-22-01058 and DK-22-01071 and DK-22-01072 and DK-22-01073 and DK-22-01074 and DK-22-01075 and DK-22-01076 and DK-22-01077 and DK-22-01078 and DK-22-01079 are from the same application. The Test Report No. DK-22-01058 . Received date: Oct.26,2022.
- * Remark: This Test Report is an additional original report of DK-22-01076. Issued date: Jan.9,2023.

---- oOo -----

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Test Report

Report No : DK-22-01078A-1

Page No : 1 OF Date of Report : Jan. 9, 2023

BROADEN WORLDWIDE CO., LTD.

No. 47-37, Jiahua Rd., Gangshan Dist, Kaohsiung City 820104, Taiwan (R.O.C)

Product Name

Self drilling Screw

Product Type

SDHCF1220C3(12-14x20)

Product Submitted By

BROADEN WORLDWIDE CO., LTD.

Date of Sample Received

Oct. 28, 2022

Date of Testing

Nov. 1, 2022~Dec. 13, 2022

Remark

The information mentioned in the above section and the following

report content marks # are provided by Client.

(Exclude Product Name, Product Submitted By, Date of Sample Received

and Date of Testing)

The laboratory tests according to the test requests and samples provided by client, and the results are as follows:

Test Request: Salt Spray Test Test Method: AS 2331.3.1 (2001)

Quantity: 4

Test Duration: 1000 Hours (according to client's requirements)

Test Result:

Visual Observation

No red rust was found on the head of all samples

(As show in Fig. 4)

Test Condition:

Test Equipment	ERICHSEN MODEL 606/400
Test Temperature (°C)	35 ± 2
NaCl solution (%)	5 ± 1
The pH of the Salt Solution	$6.8 \sim 6.9$
Atomization and Quantity of Fog (ml/hr/80cm ²)	1.3 ~ 1.7
The Specific Gravity of the Salt Solution	$1.031 \sim 1.033$
Method of Supporting Specimens	As show in Fig. 2

Remark: Test location is the same as the laboratory address.

----- 1 -----

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TWD 6 9 9 7.5

S6S Telwan Ltd.
台灣檢驗科技股份有限公司

1 (886-5) 595-2300

1 (886-5) 595-2306

1 (886-5) 595-2336

TWD 6 9 9 7.5

Www.sgs.com.tw



Test Report

No : DK-22-01078A-1 Report Page No : 2 OF

Date of Report : Jan. 9, 2023

Sample Photos:



Fig. 1: Received samples



Fig. 2: Method of Supporting specimens



Fig. 3: Before test

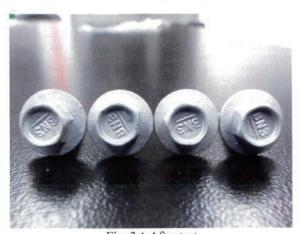


Fig. 3: After test

- * The Test Report DK-22-01058 and DK-22-01071 and DK-22-01072 and DK-22-01073 and DK-22-01074 and DK-22-01075 and DK-22-01076 and DK-22-01077 and DK-22-01078 and DK-22-01079 are from the same application. The Test Report No. DK-22-01058 . Received date: Oct.26,2022.
- * Remark: This Test Report is an additional original report of DK-22-01078. Issued date: Jan.9,2023.
- *Remark: This Test Report cancels and supersedes the Test Report No. DK-22-01078A.

Revised date: Feb.23,2023, Revised Date of Report.

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No.700, Sec. 3, Yunlin Rd., Dounan Township, Yunlin County 630045, Taiwan /630045 雲林縣斗南鎮雲林路3段700號 1 (886-5) 595-2300 ft (886-5) 595-2336 www.sgs.com.tw





Test Report

No : DK-22-01073A Report No : 1 OF Page

Date of Report : Jan. 9, 2023

BROADEN WORLDWIDE CO., LTD.

No. 47-37, Jiahua Rd., Gangshan Dist, Kaohsiung City 820104, Taiwan (R.O.C)

Product Name

Self drilling Screw

Product Type

SDHC1225C3N(12-14x25)

Product Submitted By

BROADEN WORLDWIDE CO., LTD.

Date of Sample Received

Oct. 28, 2022

Date of Testing

Nov. 1, 2022~Dec. 13, 2022

Remark

The information mentioned in the above section and the following

report content marks # are provided by Client.

(Exclude Product Name, Product Submitted By, Date of Sample Received

and Date of Testing)

The laboratory tests according to the test requests and samples provided by client, and the results are as follows:

Test Request: Salt Spray Test Test Method: AS 2331.3.1 (2001)

Quantity: 4

Test Duration: 1000 Hours (according to client's requirements)

Test Result:

Visual Observation

No red rust was found on the head of all samples

(As show in Fig. 4)

Test Condition:

Test Equipment	ERICHSEN MODEL 606/400
Test Temperature (°C)	35 ± 2
NaCl solution (%)	5 ± 1
The pH of the Salt Solution	$6.8 \sim 6.9$
Atomization and Quantity of Fog (ml/hr/80cm ²)	1.3 ~ 1.7
The Specific Gravity of the Salt Solution	$1.031 \sim 1.033$
Method of Supporting Specimens	As show in Fig. 2

Remark: Test location is the same as the laboratory address.

----- 1 -----

The required specification(s) offered in this test report is/are for reference only. The conformity judgment is at the Applicant's final verdict.

SGS Taiwan Ltd.



Report No: DK-22-01073A

No : 2 OF Page Date of Report : Jan. 9, 2023

Sample Photos:



Fig. 1: Received samples

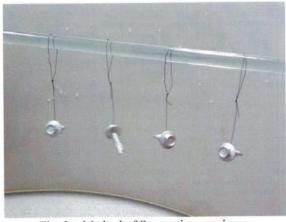


Fig. 2: Method of Supporting specimens

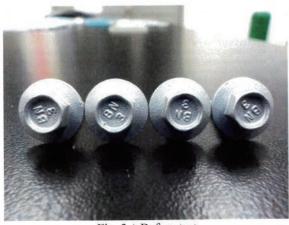


Fig. 3: Before test



Fig. 3: After test

- * The Test Report DK-22-01058 and DK-22-01071 and DK-22-01072 and DK-22-01073 and DK-22-01074 and DK-22-01075 and DK-22-01076 and DK-22-01077 and DK-22-01078 and DK-22-01079 are from the same application. The Test Report No. DK-22-01058. Received date: Oct.26,2022.
- * Remark: This Test Report is an additional original report of DK-22-01073. Issued date: Jan.9,2023.

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Test Report

Report

No : DK-22-01074A

Page No : 1 OF

Date of Report : Jan. 9, 2023

BROADEN WORLDWIDE CO., LTD.

No. 47-37, Jiahua Rd., Gangshan Dist, Kaohsiung City 820104, Taiwan (R.O.C)

Product Name

Self drilling Screw

Product Type

SDHC1255C3N(12-14x55)

Product Submitted By

BROADEN WORLDWIDE CO., LTD.

Date of Sample Received

Oct. 28, 2022

Date of Testing

Nov. 1, 2022~Dec. 13, 2022

Remark

The information mentioned in the above section and the following

report content marks # are provided by Client.

(Exclude Product Name, Product Submitted By, Date of Sample Received

and Date of Testing)

The laboratory tests according to the test requests and samples provided by client, and the results are as follows:

Test Request: Salt Spray Test Test Method: AS 2331.3.1 (2001)

Quantity: 4

Test Duration: 1000 Hours (according to client's requirements)

Test Result:

Visual Observation

No red rust was found on the head of all samples

(As show in Fig. 4)

Test Condition:

Test Equipment	ERICHSEN MODEL 606/400
Test Temperature (°C)	35 ± 2
NaCl solution (%)	5 ± 1
The pH of the Salt Solution	6.8 ~ 6.9
Atomization and Quantity of Fog (ml/hr/80cm ²)	1.3 ~ 1.7
The Specific Gravity of the Salt Solution	$1.031 \sim 1.033$
Method of Supporting Specimens	As show in Fig. 2

Remark: Test location is the same as the laboratory address.

----- 1 -----

Signed for and on behalf of

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1 (886-5) 595-2336 www.sgs.com.tw



Report No: DK-22-01074A

No : 2 OF Page Date of Report : Jan. 9, 2023

Sample Photos:



Fig. 1: Received samples

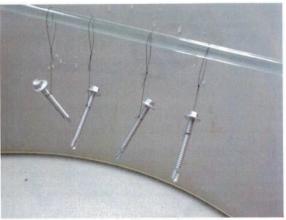


Fig. 2: Method of Supporting specimens



Fig. 3: Before test



Fig. 3: After test

- * The Test Report DK-22-01058 and DK-22-01071 and DK-22-01072 and DK-22-01073 and DK-22-01074 and DK-22-01075 and DK-22-01076 and DK-22-01077 and DK-22-01078 and DK-22-01079 are from the same application. The Test Report No. DK-22-01058 . Received date: Oct.26,2022.
- * Remark: This Test Report is an additional original report of DK-22-01074. Issued date: Jan.9,2023.

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Test Report

No : DK-22-01058A Report

No : 1 OF Page Date of Report : Jan. 9, 2023

BROADEN WORLDWIDE CO., LTD.

No. 47-37, Jiahua Rd., Gangshan Dist, Kaohsiung City 820104, Taiwan (R.O.C)

Product Name

Self drilling Screw

Product Type

SDHCG1250C3N(12-14x50)

Product Submitted By

BROADEN WORLDWIDE CO., LTD.

Date of Sample Received

Oct. 26, 2022

Date of Testing

Nov. 1, 2022~Dec. 13, 2022

Remark

The information mentioned in the above section and the following

report content marks # are provided by Client.

(Exclude Product Name, Product Submitted By, Date of Sample Received

and Date of Testing)

The laboratory tests according to the test requests and samples provided by client, and the results are as follows:

Test Request: Salt Spray Test Test Method: AS 2331.3.1 (2001)

Quantity: 4

Test Duration: 1000 Hours (according to client's requirements)

Test Result:

Visual Observation

No red rust was found on the head of all samples

(As show in Fig. 4)

Test Condition:

Test Equipment	ERICHSEN MODEL 606/400
Test Temperature (°C)	35 ± 2
NaCl solution (%)	5 ± 1
The pH of the Salt Solution	6.8 ~ 6.9
Atomization and Quantity of Fog (ml/hr/80cm ²)	1.3 ~ 1.7
The Specific Gravity of the Salt Solution	$1.031 \sim 1.033$
Method of Supporting Specimens	As show in Fig. 2

Remark: Test location is the same as the laboratory address.

---- 1 -----

Signed for and on behalf of

The required specification(s) offered in this test report is/are for reference only. The conformity judgment is at the Applicant's final verdict.

SGS Taiwan Ltd.

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Test Report

Report No : DK-22-01058A

Page No : 2 OF

Date of Report : Jan. 9, 2023

Sample Photos:



Fig. 1: Received samples

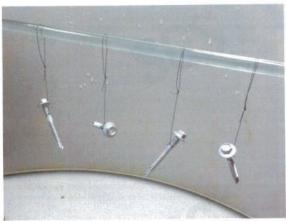


Fig. 2: Method of Supporting specimens



Fig. 3: Before test



Fig. 3: After test

- * The Test Report DK-22-01058 and DK-22-01071 and DK-22-01072 and DK-22-01073 and DK-22-01074 and DK-22-01075 and DK-22-01076 and DK-22-01077 and DK-22-01078 and DK-22-01079 are from the same application. The Test Report No. DK-22-01058 . Received date: Oct.26,2022.
- * Remark: This Test Report is an additional original report of DK-22-01058. Issued date: Jan.9,2023.

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Test Report

No : DK-22-01071A

OF Page No : 1

Date of Report : Jan. 9, 2023

BROADEN WORLDWIDE CO., LTD.

No. 47-37, Jiahua Rd., Gangshan Dist, Kaohsiung City 820104, Taiwan (R.O.C)

Product Name

Self drilling Screw

Product Type

SDHCG1255C3N(12-14x55)

Product Submitted By

BROADEN WORLDWIDE CO., LTD.

Date of Sample Received

Oct. 28, 2022

Date of Testing

Nov. 1, 2022~Dec. 13, 2022

Remark

The information mentioned in the above section and the following

report content marks # are provided by Client.

(Exclude Product Name, Product Submitted By, Date of Sample Received

and Date of Testing)

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Test Equipment	ERICHSEN MODEL 606/400
Test Temperature (°C)	35 ± 2
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Method of Supporting Specimens	As show in Fig. 2

Remark: Test location is the same as the laboratory address.

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Report No: DK-22-01071A No : 2 OF Page

Date of Report : Jan. 9, 2023

Sample Photos:



Fig. 1: Received samples

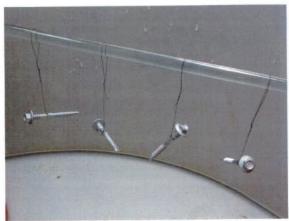


Fig. 2: Method of Supporting specimens



Fig. 3: Before test



Fig. 3: After test

- * The Test Report DK-22-01058 and DK-22-01071 and DK-22-01072 and DK-22-01073 and DK-22-01074 and DK-22-01075 and DK-22-01076 and DK-22-01077 and DK-22-01078 and DK-22-01079 are from the same application. The Test Report No. DK-22-01058 . Received date: Oct.26,2022.
- * Remark: This Test Report is an additional original report of DK-22-01071. Issued date: Jan.9,2023.

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Test Report

Page

Report No : DK-22-01072A

OF

No : 1 Date of Report : Jan. 9, 2023

BROADEN WORLDWIDE CO., LTD.

No. 47-37, Jiahua Rd., Gangshan Dist, Kaohsiung City 820104, Taiwan (R.O.C)

Product Name

Self drilling Screw

Product Type

SDHCG1275C3N(12-14x75)

Product Submitted By

BROADEN WORLDWIDE CO., LTD.

Date of Sample Received

Oct. 28, 2022

Date of Testing

Nov. 1, 2022~Dec. 13, 2022

Remark

The information mentioned in the above section and the following

report content marks # are provided by Client.

(Exclude Product Name, Product Submitted By, Date of Sample Received

and Date of Testing)

The laboratory tests according to the test requests and samples provided by client, and the results are as follows:

Test Request: Salt Spray Test Test Method: AS 2331.3.1 (2001)

Quantity: 4

Test Duration: 1000 Hours (according to client's requirements)

Test Result:

Visual Observation

No red rust was found on the head of all samples

(As show in Fig. 4)

Test Condition:

Test Equipment	ERICHSEN MODEL 606/400
Test Temperature (°C)	35 ± 2
NaCl solution (%)	5 ± 1
The pH of the Salt Solution	6.8 ~ 6.9
Atomization and Quantity of Fog (ml/hr/80cm ²)	1.3 ~ 1.7
The Specific Gravity of the Salt Solution	$1.031 \sim 1.033$
Method of Supporting Specimens	As show in Fig. 2

Remark: Test location is the same as the laboratory address.

-- 1 -----

The required specification(s) offered in this test report is/are for reference only. The conformity judgment is at the Applicant's final verdict.

Signed for and on behalf of

SGS Taiwan Ltd.

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Report No: DK-22-01072A

OF Page No : 2

Date of Report : Jan. 9, 2023

Sample Photos:



Fig. 1: Received samples

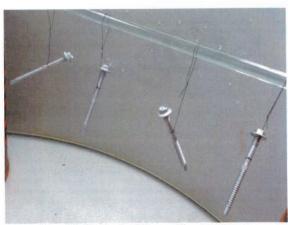


Fig. 2: Method of Supporting specimens



Fig. 3: Before test



Fig. 3: After test

- * The Test Report DK-22-01058 and DK-22-01071 and DK-22-01072 and DK-22-01073 and DK-22-01074 and $DK-22-01075 \ and \ DK-22-01076 \ and \ DK-22-01077 \ and \ DK-22-01078 \ and \ DK-22-01079 \ are \ from \ the \ same \ application.$ The Test Report No. DK-22-01058. Received date: Oct.26,2022.
- * Remark: This Test Report is an additional original report of DK-22-01072. Issued date: Jan.9,2023.

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Test Report

Report

No : DK-22-01077A

OF No : 1 Page Date of Report : Jan. 9, 2023

BROADEN WORLDWIDE CO., LTD.

No. 47-37, Jiahua Rd., Gangshan Dist, Kaohsiung City 820104, Taiwan (R.O.C)

Product Name

Self drilling Screw

Product Type

SDH5F1238C3N(12-24x38)

Product Submitted By

BROADEN WORLDWIDE CO., LTD.

Date of Sample Received

Oct. 28, 2022

Date of Testing

Nov. 1, 2022~Dec. 13, 2022

Remark

The information mentioned in the above section and the following

report content marks # are provided by Client.

(Exclude Product Name, Product Submitted By, Date of Sample Received

and Date of Testing)

The laboratory tests according to the test requests and samples provided by client, and the results are as follows:

Test Request: Salt Spray Test Test Method: AS 2331.3.1 (2001)

Quantity: 4

Test Duration: 1000 Hours (according to client's requirements)

Test Result:

Visual Observation

No red rust was found on the head of all samples

(As show in Fig. 4)

Test Condition:

Test Equipment	ERICHSEN MODEL 606/400
Test Temperature (°C)	35 ± 2
NaCl solution (%)	5 ± 1
The pH of the Salt Solution	6.8 ~ 6.9
Atomization and Quantity of Fog (ml/hr/80cm ²)	1.3 ~ 1.7
The Specific Gravity of the Salt Solution	$1.031 \sim 1.033$
Method of Supporting Specimens	As show in Fig. 2

Remark: Test location is the same as the laboratory address.

-- 1 -----

The required specification(s) offered in this test report is/are for reference only. The conformity judgment is at the Applicant's final verdict.

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Report No : DK-22-01077A No : 2 OF Page

Date of Report : Jan. 9, 2023

Sample Photos:



Fig. 1: Received samples

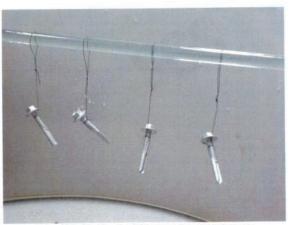


Fig. 2: Method of Supporting specimens



Fig. 3: Before test



Fig. 3: After test

- * The Test Report DK-22-01058 and DK-22-01071 and DK-22-01072 and DK-22-01073 and DK-22-01074 and DK-22-01075 and DK-22-01076 and DK-22-01077 and DK-22-01078 and DK-22-01079 are from the same application. The Test Report No. DK-22-01058 . Received date: Oct.26,2022.
- * Remark: This Test Report is an additional original report of DK-22-01077. Issued date: Jan.9,2023.

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Test Report

Report

No : DK-22-01075A

No : 1 OF Page Date of Report : Jan. 9, 2023

BROADEN WORLDWIDE CO., LTD.

No. 47-37, Jiahua Rd., Gangshan Dist, Kaohsiung City 820104, Taiwan (R.O.C)

Product Name

Self drilling Screw

Product Type

SDHC1520C3N(15-15x20)

Product Submitted By

BROADEN WORLDWIDE CO., LTD.

Date of Sample Received

Oct. 28, 2022

Date of Testing

Nov. 1, 2022~Dec. 13, 2022

Remark

The information mentioned in the above section and the following

report content marks # are provided by Client.

(Exclude Product Name, Product Submitted By, Date of Sample Received

and Date of Testing)

The laboratory tests according to the test requests and samples provided by client, and the results are as follows:

Test Request: Salt Spray Test Test Method: AS 2331.3.1 (2001)

Quantity: 4

Test Duration: 1000 Hours (according to client's requirements)

Test Result:

Visual Observation

No red rust was found on the head of all samples

(As show in Fig. 4)

Test Condition:

Test Equipment	ERICHSEN MODEL 606/400
Test Temperature (°C)	35 ± 2
NaCl solution (%)	5 ± 1
The pH of the Salt Solution	6.8 ~ 6.9
Atomization and Quantity of Fog (ml/hr/80cm ²)	1.3 ~ 1.7
The Specific Gravity of the Salt Solution	1.031 ~ 1.033
Method of Supporting Specimens	As show in Fig. 2

Remark: Test location is the same as the laboratory address.

----- 1 -----

The required specification(s) offered in this test report is/are for reference only. The conformity judgment is at the Applicant's final verdict.

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No : DK-22-01075A Report Page No : 2 OF

Date of Report : Jan. 9, 2023

Sample Photos:



Fig. 1: Received samples



Fig. 2: Method of Supporting specimens



Fig. 3: Before test



Fig. 3: After test

- * The Test Report DK-22-01058 and DK-22-01071 and DK-22-01072 and DK-22-01073 and DK-22-01074 and DK-22-01075 and DK-22-01076 and DK-22-01077 and DK-22-01078 and DK-22-01079 are from the same application. The Test Report No. DK-22-01058 . Received date: Oct.26,2022.
- * Remark: This Test Report is an additional original report of DK-22-01075. Issued date: Jan.9,2023.

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Test Report

Report

No : DK-22-01079A

Page No : 1

OF

Date of Report : Jan. 9, 2023

BROADEN WORLDWIDE CO., LTD.

No. 47-37, Jiahua Rd., Gangshan Dist, Kaohsiung City 820104, Taiwan (R.O.C)

Product Name

Self drilling Screw

Product Type

T17HCG1250C3N(12-11x50)

Product Submitted By

BROADEN WORLDWIDE CO., LTD.

Date of Sample Received

Oct. 28, 2022

Date of Testing

Nov. 1, 2022~Dec. 13, 2022

Remark

The information mentioned in the above section and the following

report content marks # are provided by Client.

(Exclude Product Name, Product Submitted By, Date of Sample Received

and Date of Testing)

The laboratory tests according to the test requests and samples provided by client, and the results are as follows:

Test Request: Salt Spray Test Test Method: AS 2331.3.1 (2001)

Quantity: 4

Test Duration: 1000 Hours (according to client's requirements)

Test Result:

Visual Observation

No red rust was found on the head of all samples

(As show in Fig. 4)

Test Condition:

Test Equipment	ERICHSEN MODEL 606/400
Test Temperature (°C)	35 ± 2
NaCl solution (%)	5 ± 1
The pH of the Salt Solution	$6.8 \sim 6.9$
Atomization and Quantity of Fog (ml/hr/80cm ²)	$1.3 \sim 1.7$
The Specific Gravity of the Salt Solution	$1.031 \sim 1.033$
Method of Supporting Specimens	As show in Fig. 2

Remark: Test location is the same as the laboratory address.

-- 1 -----

The required specification(s) offered in this test report is/are for reference only. The conformity judgment is at the Applicant's final verdict.

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Test Report

Report No: DK-22-01079A

No : 2 OF Page Date of Report : Jan. 9, 2023

Sample Photos:



Fig. 1: Received samples

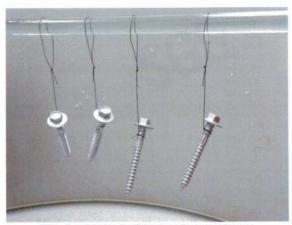


Fig. 2: Method of Supporting specimens



Fig. 3: Before test



Fig. 3: After test

- * The Test Report DK-22-01058 and DK-22-01071 and DK-22-01072 and DK-22-01073 and DK-22-01074 and DK-22-01075 and DK-22-01076 and DK-22-01077 and DK-22-01078 and DK-22-01079 are from the same application. The Test Report No. DK-22-01058. Received date: Oct.26,2022.
- * Remark: This Test Report is an additional original report of DK-22-01079. Issued date: Jan.9,2023.

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Test Report

Page

No : DK-22-01085A Report No : 1 OF

Date of Report : Jan. 9, 2023

BROADEN WORLDWIDE CO., LTD.

No. 47-37, Jiahua Rd., Gangshan Dist, Kaohsiung City 820104, Taiwan (R.O.C)

Product Name

Self drilling Screw

Product Type

SDHC1019C3N(10-16x19)

Product Submitted By

BROADEN WORLDWIDE CO., LTD.

Date of Sample Received

Oct. 28, 2022

Date of Testing

Nov. 7, 2022~Nov. 22, 2022

Remark

The information mentioned in the above section and the following

report content marks # are provided by Client.

(Exclude Product Name, Product Submitted By, Date of Sample Received

and Date of Testing)

The laboratory tests according to the test requests and samples provided by client, and the results are as follows:

Test Request: Sulfur Dioxide Corrosion Test (Kesternich Test)

Test Method: DIN 50018 (2013) - AHT 2.0 S

Test Duration: 15 cycles (according to client's requirements)

Test Result:

Visual Observation

No red rust was found on the head of all samples

(As show in Fig. 4)

Test Conditions:

Tobt Collar	LICITO			
Test Equipment			ERICHSEN 519/SA	
SO ₂ Concentration			2.0 L (0.67%) / Cycle	
Method of Supporting specimens			As show in Fig. 2	
Test Cycle	1st test phase	Test Time	8 Hours	
		Test Temp.	40°C±3°C	
		Test Humidity	Approximately 100%	
	2nd test phase	Test Times	16 Hours	
		Test Temp.	18°C~28°C	
		Test Humidity	75% max.	

The required specification(s) offered in this test report is/are for reference only. The conformity judgment is at the Applicant's final verdict.

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Test Report

Report No: DK-22-01085A No : 2 OF Page

Date of Report : Jan. 9, 2023

Sample Photos:



Fig. 1: Received samples

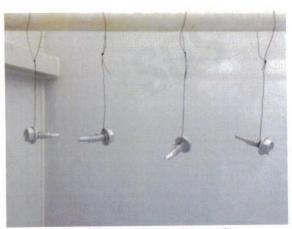


Fig. 2: Method of Supporting specimens



Fig. 3: Before test



Fig. 4: After test

Remark: 1. Sulfur Dioxide Corrosion Test (Kesternich Test) test is accredited by TAF.

2. Test location is the same as the laboratory address.

*The Test Report DK-22-01059 and DK-22-01080 and DK-22-01081 and DK-22-01082 and DK-22-01083 and DK-22-01084 and DK-22-01085 and DK-22-01086 and DK-22-01087 and DK-22-01088 are from the same application. The Test Report No. DK-22-01059 . Received date: Oct.26,2022.

* Remark: This Test Report is an additional original report of DK-22-01085. Issued date: Jan.9,2023.

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The required specification(s) offered in this test report is/are for reference only.

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Test Report

Report

No : DK-22-01087A No : 1

OF

Page Date of Report : Jan. 9, 2023

BROADEN WORLDWIDE CO., LTD.

No. 47-37, Jiahua Rd., Gangshan Dist, Kaohsiung City 820104, Taiwan (R.O.C)

Product Name

Self drilling Screw

Product Type

SDHCF1220C3(12-14x20)

Product Submitted By

BROADEN WORLDWIDE CO., LTD.

Date of Sample Received Oct. 28, 2022

Date of Testing

Nov. 7, 2022~Nov. 22, 2022

Remark

The information mentioned in the above section and the following

report content marks # are provided by Client.

(Exclude Product Name, Product Submitted By, Date of Sample Received

and Date of Testing)

The laboratory tests according to the test requests and samples provided by client, and the results are as follows:

Test Request: Sulfur Dioxide Corrosion Test (Kesternich Test)

Test Method: DIN 50018 (2013) - AHT 2.0 S

Quantity: 4

Test Duration: 15 cycles (according to client's requirements)

Test Result:

Visual Observation

No red rust was found on the head of all samples

(As show in Fig. 4)

Test Conditions:

Test Equipment			ERICHSEN 519/SA
SO ₂ Concentration			2.0 L (0.67%) / Cycle
Method of Supporting specimens		As show in Fig. 2	
Test Cycle	1st test phase	Test Time	8 Hours
		Test Temp.	40°C±3°C
		Test Humidity	Approximately 100%
	2nd test phase	Test Times	16 Hours
		Test Temp.	18°C~28°C
		Test Humidity	75% max.

---- 1 -----

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Test Report

Report

No : DK-22-01087A

OF Page No : 2 Date of Report : Jan. 9, 2023

Sample Photos:



Fig. 1: Received samples



Fig. 2: Method of Supporting specimens



Fig. 3: Before test



Fig. 4: After test

Remark: 1. Sulfur Dioxide Corrosion Test (Kesternich Test) test is accredited by TAF.

2. Test location is the same as the laboratory address.

*The Test Report DK-22-01059 and DK-22-01080 and DK-22-01081 and DK-22-01082 and DK-22-01083 and DK-22-01084 and DK-22-01085 and DK-22-01086 and DK-22-01087 and DK-22-01088 are from the same application. The Test Report No. DK-22-01059 . Received date: Oct.26,2022.

* Remark: This Test Report is an additional original report of DK-22-01087. Issued date: Jan.9,2023.

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The required specification(s) offered in this test report is/are for reference only.

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Test Report

Report

Page

No : DK-22-01082A

OF

No : 1 Date of Report : Jan. 9, 2023

BROADEN WORLDWIDE CO., LTD.

No. 47-37, Jiahua Rd., Gangshan Dist, Kaohsiung City 820104, Taiwan (R.O.C)

Product Name

Self drilling Screw

Product Type

SDHC1225C3N(12-14x25)

Product Submitted By

BROADEN WORLDWIDE CO., LTD.

Date of Sample Received

Oct. 28, 2022

Date of Testing

Nov. 7, 2022~ Nov. 22, 2022

Remark

The information mentioned in the above section and the following

report content marks # are provided by Client.

(Exclude Product Name, Product Submitted By, Date of Sample Received

and Date of Testing)

The laboratory tests according to the test requests and samples provided by client, and the results are as follows:

Test Request: Sulfur Dioxide Corrosion Test (Kesternich Test)

Test Method: DIN 50018 (2013) - AHT 2.0 S

Quantity: 4

Test Duration: 15 cycles (according to client's requirements)

Test Result:

Visual Observation

No red rust was found on the head of all samples

(As show in Fig. 4)

Test Conditions:

Test Equipment			ERICHSEN 519/SA
SO ₂ Concentration			2.0 L (0.67%) / Cycle
Method of Supporting specimens		As show in Fig. 2	
Test Cycle	1st test phase	Test Time	8 Hours
		Test Temp.	40°C±3°C
		Test Humidity	Approximately 100%
	2nd test phase	Test Times	16 Hours
		Test Temp.	18°C~28°C
		Test Humidity	75% max.

----- 1 -----

The required specification(s) offered in this test report is/are for reference only. The conformity judgment is at the Applicant's final verdict.

SGS Taiwan Ltd.

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Test Report

Report

No : DK-22-01082A OF

Page No : 2 Date of Report : Jan. 9, 2023

Sample Photos:



Fig. 1: Received samples



Fig. 2: Method of Supporting specimens



Fig. 3: Before test

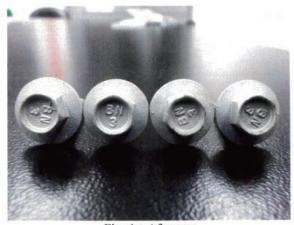


Fig. 4: After test

Remark: 1. Sulfur Dioxide Corrosion Test (Kesternich Test) test is accredited by TAF.

2. Test location is the same as the laboratory address.

*The Test Report DK-22-01059 and DK-22-01080 and DK-22-01081 and DK-22-01082 and DK-22-01083 and DK-22-01084 and DK-22-01085 and DK-22-01086 and DK-22-01087 and DK-22-01088 are from the same application. The Test Report No. DK-22-01059 . Received date: Oct.26,2022.

* Remark: This Test Report is an additional original report of DK-22-01082. Issued date: Jan.9,2023.

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Test Report

Report No: DK-22-01083A

Page No : 1 OF Date of Report : Jan. 9, 2023

BROADEN WORLDWIDE CO., LTD.

No. 47-37, Jiahua Rd., Gangshan Dist, Kaohsiung City 820104, Taiwan (R.O.C)

Product Name

Self drilling Screw

Product Type

SDHC1255C3N(12-14x55)

Product Submitted By

BROADEN WORLDWIDE CO., LTD.

Date of Sample Received

Oct. 28, 2022

Date of Testing

Nov. 7, 2022~Nov. 22, 2022

Remark

The information mentioned in the above section and the following

report content marks # are provided by Client.

(Exclude Product Name, Product Submitted By, Date of Sample Received

and Date of Testing)

The laboratory tests according to the test requests and samples provided by client, and the results are as follows:

Test Request: Sulfur Dioxide Corrosion Test (Kesternich Test)

Test Method: DIN 50018 (2013) - AHT 2.0 S

Quantity: 4

Test Duration: 15 cycles (according to client's requirements)

Test Result:

Visual Observation

No red rust was found on the head of all samples

(As show in Fig. 4)

Test Conditions:

Test Equipment			ERICHSEN 519/SA
SO ₂ Concentration			2.0 L (0.67%) / Cycle
Method of Supporting specimens		As show in Fig. 2	
Test Cycle	1st test phase	Test Time	8 Hours
		Test Temp.	40°C±3°C
		Test Humidity	Approximately 100%
	2nd test phase	Test Times	16 Hours
		Test Temp.	18°C~28°C
		Test Humidity	75% max.

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The required specification(s) offered in this test report is/are for reference only. The conformity judgment is at the Applicant's final verdict.

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Test Report

Report No: DK-22-01083A

No : 2 OF Page Date of Report : Jan. 9, 2023

Sample Photos:



Fig. 1: Received samples



Fig. 2: Method of Supporting specimens



Fig. 3: Before test



Fig. 4: After test

Remark: 1. Sulfur Dioxide Corrosion Test (Kesternich Test) test is accredited by TAF.

2. Test location is the same as the laboratory address.

*The Test Report DK-22-01059 and DK-22-01080 and DK-22-01081 and DK-22-01082 and DK-22-01083 and DK-22-01084 and DK-22-01085 and DK-22-01086 and DK-22-01087 and DK-22-01088 are from the same application. The Test Report No. DK-22-01059 . Received date: Oct.26,2022.

* Remark: This Test Report is an additional original report of DK-22-01083. Issued date: Jan.9,2023.

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Test Report

No : DK-22-01059A Report

Page No : 1 OF

Date of Report : Jan. 9, 2023

BROADEN WORLDWIDE CO., LTD.

No. 47-37, Jiahua Rd., Gangshan Dist, Kaohsiung City 820104, Taiwan (R.O.C)

Product Name

Self drilling Screw

Product Type

SDHCG1250C3N(12-14x50)

Product Submitted By

BROADEN WORLDWIDE CO., LTD.

Date of Sample Received

Oct. 26, 2022

Date of Testing

Nov. 7, 2022~Nov. 22, 2022

Remark

The information mentioned in the above section and the following

report content marks # are provided by Client.

(Exclude Product Name, Product Submitted By, Date of Sample Received

and Date of Testing)

The laboratory tests according to the test requests and samples provided by client, and the results are as follows:

Test Request: Sulfur Dioxide Corrosion Test (Kesternich Test)

Test Method: DIN 50018 (2013) - AHT 2.0 S

Quantity: 4

Test Duration: 15 cycles (according to client's requirements)

Test Result:

Visual Observation

No red rust was found on the head of all samples

(As show in Fig. 4)

Test Conditions:

Test Equipment			ERICHSEN 519/SA
SO ₂ Concentration			2.0 L (0.67%) / Cycle
Method of Supporting specimens		As show in Fig. 2	
Test Cycle	1st test phase	Test Time	8 Hours
		Test Temp.	40°C±3°C
		Test Humidity	Approximately 100%
	2nd test phase	Test Times	16 Hours
		Test Temp.	18°C~28°C
		Test Humidity	75% max.

The required specification(s) offered in this test report is/are for reference only. The conformity judgment is at the Applicant's final verdict.

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Report No: DK-22-01059A

No : 2 OF Page Date of Report : Jan. 9, 2023

Sample Photos:



Fig. 1: Received samples



Fig. 2: Method of Supporting specimens



Fig. 3: Before test



Fig. 4: After test

Remark: 1. Sulfur Dioxide Corrosion Test (Kesternich Test) test is accredited by TAF.

2. Test location is the same as the laboratory address.

*The Test Report DK-22-01059 and DK-22-01080 and DK-22-01081 and DK-22-01082 and DK-22-01083 and DK-22-01084 and DK-22-01085 and DK-22-01086 and DK-22-01087 and DK-22-01088 are from the same application. The Test Report No. DK-22-01059 . Received date: Oct.26,2022.

* Remark: This Test Report is an additional original report of DK-22-01059. Issued date: Jan.9,2023.

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Test Report

No : DK-22-01080A Report No : 1 OF Page Date of Report : Jan. 9, 2023

BROADEN WORLDWIDE CO., LTD.

No. 47-37, Jiahua Rd., Gangshan Dist, Kaohsiung City 820104, Taiwan (R.O.C)

Product Name

Self drilling Screw

Product Type

SDHCG1255C3N(12-14x55)

Product Submitted By

BROADEN WORLDWIDE CO., LTD.

Date of Sample Received

Oct. 28, 2022

Date of Testing

Nov. 7, 2022~Nov. 22, 2022

Remark

The information mentioned in the above section and the following

report content marks # are provided by Client.

(Exclude Product Name, Product Submitted By, Date of Sample Received

and Date of Testing)

The laboratory tests according to the test requests and samples provided by client, and the results are as follows:

Test Request: Sulfur Dioxide Corrosion Test (Kesternich Test)

Test Method: DIN 50018 (2013) - AHT 2.0 S

Test Duration: 15 cycles (according to client's requirements)

Test Result:

Visual Observation

No red rust was found on the head of all samples

(As show in Fig. 4)

Test Conditions:

Test Equip	ment		ERICHSEN 519/SA
SO ₂ Concentration			2.0 L (0.67%) / Cycle
Method of Supporting specimens		As show in Fig. 2	
Test Cycle	1st test phase	Test Time	8 Hours
		Test Temp.	40°C±3°C
		Test Humidity	Approximately 100%
	2nd test phase	Test Times	16 Hours
		Test Temp.	18°C~28°C
		Test Humidity	75% max.

The required specification(s) offered in this test report is/are for reference only. The conformity judgment is at the Applicant's final verdict.

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Test Report

Report No: DK-22-01080A

No : 2 OF Page Date of Report : Jan. 9, 2023

Sample Photos:



Fig. 1: Received samples

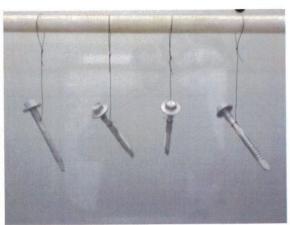


Fig. 2: Method of Supporting specimens



Fig. 3: Before test



Fig. 4: After test

Remark: 1. Sulfur Dioxide Corrosion Test (Kesternich Test) test is accredited by TAF.

2. Test location is the same as the laboratory address.

*The Test Report DK-22-01059 and DK-22-01080 and DK-22-01081 and DK-22-01082 and DK-22-01083 and DK-22-01084 and DK-22-01085 and DK-22-01086 and DK-22-01087 and DK-22-01088 are from the same application. The Test Report No. DK-22-01059. Received date: Oct.26,2022.

* Remark: This Test Report is an additional original report of DK-22-01080. Issued date: Jan.9,2023.

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Test Report

Report

No : DK-22-01081A

Page No : 1 OF Date of Report : Jan. 9, 2023

BROADEN WORLDWIDE CO., LTD.

No. 47-37, Jiahua Rd., Gangshan Dist, Kaohsiung City 820104, Taiwan (R.O.C)

Product Name

Self drilling Screw

Product Type

SDHCG1275C3N(12-14x75)

Product Submitted By

BROADEN WORLDWIDE CO., LTD.

Date of Sample Received Oct. 28, 2022

Date of Testing

Nov. 7, 2022~ Nov. 22, 2022

Remark

The information mentioned in the above section and the following

report content marks # are provided by Client.

(Exclude Product Name, Product Submitted By, Date of Sample Received

and Date of Testing)

The laboratory tests according to the test requests and samples provided by client, and the results are as follows:

Test Request: Sulfur Dioxide Corrosion Test (Kesternich Test)

Test Method: DIN 50018 (2013) - AHT 2.0 S

Quantity: 4

Test Duration: 15 cycles (according to client's requirements)

Test Result:

Visual Observation

No red rust was found on the head of all samples (As show in Fig. 4)

Test Conditions:

Test Equip	ment		ERICHSEN 519/SA
SO ₂ Concentration			2.0 L (0.67%) / Cycle
Method of Supporting specimens		As show in Fig. 2	
Test Cycle	1st test phase	Test Time	8 Hours
		Test Temp.	40°C±3°C
		Test Humidity	Approximately 100%
	2nd test phase	Test Times	16 Hours
		Test Temp.	18°C~28°C
		Test Humidity	75% max.

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Test Report

No : DK-22-01081A Report

No : 2 OF Page

Date of Report : Jan. 9, 2023

Sample Photos:



Fig. 1: Received samples

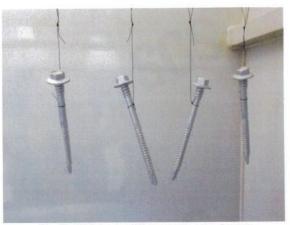


Fig. 2: Method of Supporting specimens



Fig. 3: Before test



Fig. 4: After test

Remark: 1. Sulfur Dioxide Corrosion Test (Kesternich Test) test is accredited by TAF.

2. Test location is the same as the laboratory address.

*The Test Report DK-22-01059 and DK-22-01080 and DK-22-01081 and DK-22-01082 and DK-22-01083 and DK-22-01084 and DK-22-01085 and DK-22-01086 and DK-22-01087 and DK-22-01088 are from the same application. The Test Report No. DK-22-01059 . Received date: Oct.26,2022.

* Remark: This Test Report is an additional original report of DK-22-01081. Issued date: Jan.9,2023.

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Test Report

Report No : DK-22-

No : DK-22-01086A No : 1 OF 2

Page No : 1 OF Date of Report : Jan. 9, 2023

BROADEN WORLDWIDE CO., LTD.

No. 47-37, Jiahua Rd., Gangshan Dist, Kaohsiung City 820104, Taiwan (R.O.C)

Product Name

Self drilling Screw

Product Type

SDH5F1238C3N(12-24x38)

Product Submitted By

BROADEN WORLDWIDE CO., LTD.

Date of Sample Received

Oct. 28, 2022

Date of Testing

Nov. 7, 2022~Nov. 22, 2022

Remark

The information mentioned in the above section and the following

report content marks # are provided by Client.

(Exclude Product Name, Product Submitted By, Date of Sample Received

and Date of Testing)

The laboratory tests according to the test requests and samples provided by client, and the results are as follows:

Test Request: Sulfur Dioxide Corrosion Test (Kesternich Test)

Test Method: DIN 50018 (2013) - AHT 2.0 S

Quantity: 4

Test Duration: 15 cycles (according to client's requirements)

Test Result:

Visual Observation

No red rust was found on the head of all samples

(As show in Fig. 4)

Test Conditions:

Test Equip	Test Equipment		ERICHSEN 519/SA
SO ₂ Concentration		2.0 L (0.67%) / Cycle	
Method of Supporting specimens		As show in Fig. 2	
	1st test phase	Test Time	8 Hours
		Test Temp.	40°C±3°C
T . C . 1		Test Humidity	Approximately 100%
Test Cycle	2nd test phase	Test Times	16 Hours
		Test Temp.	18°C~28°C
	presentative successive survivides 4. No district that let U.	Test Humidity	75% max.

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Test Report

No : DK-22-01086A Report

No : 2 OF Page Date of Report : Jan. 9, 2023

Sample Photos:



Fig. 1: Received samples

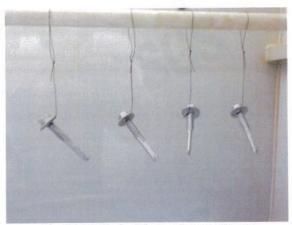


Fig. 2: Method of Supporting specimens



Fig. 3: Before test



Fig. 4: After test

Remark: 1. Sulfur Dioxide Corrosion Test (Kesternich Test) test is accredited by TAF.

2. Test location is the same as the laboratory address.

*The Test Report DK-22-01059 and DK-22-01080 and DK-22-01081 and DK-22-01082 and DK-22-01083 and DK-22-01084 and DK-22-01085 and DK-22-01086 and DK-22-01087 and DK-22-01088 are from the same application. The Test Report No. DK-22-01059 . Received date: Oct.26,2022.

* Remark: This Test Report is an additional original report of DK-22-01086. Issued date: Jan.9,2023.

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The required specification(s) offered in this test report is/are for reference only.

The conformity judgment is at the Applicant's final verdict.

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Test Report

No : DK-22-01084A Report

Page No : 1 OF Date of Report : Jan. 9, 2023

BROADEN WORLDWIDE CO., LTD.

No. 47-37, Jiahua Rd., Gangshan Dist, Kaohsiung City 820104, Taiwan (R.O.C)

Product Name

Self drilling Screw

Product Type

SDHC1520C3N(15-15x20)

Product Submitted By

BROADEN WORLDWIDE CO., LTD.

Date of Sample Received

Oct. 28, 2022

Date of Testing

Nov. 7, 2022~Nov. 22, 2022

Remark

The information mentioned in the above section and the following

report content marks # are provided by Client.

(Exclude Product Name, Product Submitted By, Date of Sample Received

and Date of Testing)

The laboratory tests according to the test requests and samples provided by client, and the results are as follows:

Test Request: Sulfur Dioxide Corrosion Test (Kesternich Test)

Test Method: DIN 50018 (2013) - AHT 2.0 S

Test Duration: 15 cycles (according to client's requirements)

Test Result:

Visual Observation

No red rust was found on the head of all samples

(As show in Fig. 4)

Test Conditions:

Test Collar	CLOTIO		
Test Equip	Equipment		ERICHSEN 519/SA
SO ₂ Concentration		2.0 L (0.67%) / Cycle	
Method of Supporting specimens		As show in Fig. 2	
	1st test phase	Test Time	8 Hours
		Test Temp.	40°C±3°C
T . C . 1		Test Humidity	Approximately 100%
Test Cycle	2nd test phase	Test Times	16 Hours
		Test Temp.	18°C~28°C
	A CONTRACTOR A CONTRACTOR	Test Humidity	75% max.

The required specification(s) offered in this test report is/are for reference only. The conformity judgment is at the Applicant's final verdict.

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Test Report

Report No: DK-22-01084A

No : 2 OF Page Date of Report : Jan. 9, 2023

Sample Photos:



Fig. 1: Received samples



Fig. 2: Method of Supporting specimens



Fig. 3: Before test



Fig. 4: After test

Remark: 1. Sulfur Dioxide Corrosion Test (Kesternich Test) test is accredited by TAF.

Test location is the same as the laboratory address.

*The Test Report DK-22-01059 and DK-22-01080 and DK-22-01081 and DK-22-01082 and DK-22-01083 and DK-22-01084 and DK-22-01085 and DK-22-01086 and DK-22-01087 and DK-22-01088 are from the same application. The Test Report No. DK-22-01059 . Received date: Oct.26,2022.

* Remark: This Test Report is an additional original report of DK-22-01084. Issued date: Jan.9,2023.

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The required specification(s) offered in this test report is/are for reference only.

The conformity judgment is at the Applicant's final verdict.

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Test Report

Report No : DK-22-01088A OF Page No : 1

Date of Report : Jan. 9, 2023

BROADEN WORLDWIDE CO., LTD.

No. 47-37, Jiahua Rd., Gangshan Dist, Kaohsiung City 820104, Taiwan (R.O.C)

Product Name

Self drilling Screw

Product Type

T17HCG1250C3N(12-11x50)

Product Submitted By

BROADEN WORLDWIDE CO., LTD.

Date of Sample Received

Oct. 28, 2022

Date of Testing

Nov. 7, 2022~Nov. 22, 2022

Remark

The information mentioned in the above section and the following

report content marks # are provided by Client.

(Exclude Product Name, Product Submitted By, Date of Sample Received

and Date of Testing)

The laboratory tests according to the test requests and samples provided by client, and the results are as follows:

Test Request: Sulfur Dioxide Corrosion Test (Kesternich Test)

Test Method: DIN 50018 (2013) - AHT 2.0 S

Test Duration: 15 cycles (according to client's requirements)

Test Result:

Visual Observation

No red rust was found on the head of all samples

(As show in Fig. 4)

Test Conditions:

Test Equip	ment		ERICHSEN 519/SA
SO ₂ Concentration		2.0 L (0.67%) / Cycle	
Method of Supporting specimens		As show in Fig. 2	
	1st test phase	Test Time	8 Hours
		Test Temp.	40°C±3°C
T C1-		Test Humidity	Approximately 100%
Test Cycle	2nd test phase	Test Times	16 Hours
		Test Temp.	18°C~28°C
	•	Test Humidity	75% max.

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Signed for and on behalf of

SGS Taiwan Ltd.

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Test Report

No : DK-22-01088A

Page

Report

No : 2

OF

Date of Report : Jan. 9, 2023

Sample Photos:



Fig. 1: Received samples

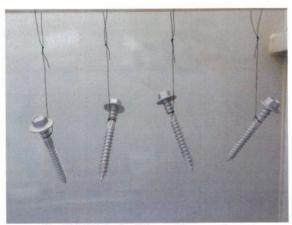


Fig. 2: Method of Supporting specimens



Fig. 3: Before test

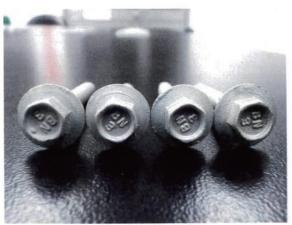


Fig. 4: After test

Remark: 1. Sulfur Dioxide Corrosion Test (Kesternich Test) test is accredited by TAF.

2. Test location is the same as the laboratory address.

*The Test Report DK-22-01059 and DK-22-01080 and DK-22-01081 and DK-22-01082 and DK-22-01083 and DK-22-01084 and DK-22-01085 and DK-22-01086 and DK-22-01087 and DK-22-01088 are from the same application. The Test Report No. DK-22-01059 . Received date: Oct.26,2022.

* Remark: This Test Report is an additional original report of DK-22-01088. Issued date: Jan.9,2023.

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BDN FASTENERS 3RD PARTY LABORATORIES



Test Report

Report No : DV-22-00654 No : 1 OF Page Date of Report : Mar. 25,2023

Project Name

Self drilling Screw

Owner Applicant BROADEN WORLDWIDE CO., LTD. BROADEN WORLDWIDE CO., LTD. BROADEN WORLDWIDE CO., LTD.

Supplier Sample Name

BN3-SDHC1225C3N(12-14×25mm), BN3-SDHCG1255C3N(12-14×55mm) BN3-SDHCG1265C3N(12-14×65mm), BN3-SDHCG1275C3N(12-14×75mm)

Sample Submitted By

BROADEN WORLDWIDE CO., LTD.(Kidd Chen)

Date of Sample Received

Dec. 12, 2022

Date of Testing

Dec. 13, 2022~Mar. 24, 2023

Remark

The information mentioned in the above section and the following

report content marks # are provided by Client.

(Exclude Product Name, Product Submitted By, Date of Sample Received

and Date of Testing)

TEST RESULTS:

Test Item(s)	Test Method	Test Result(s)
UV Exposure Test (2000 h)			- COES
Sample 12-14×25 mm	Sample. 1 Sample. 2 Sample. 3 Sample. 4 Sample. 5	No No No	No effect No effect No effect No effect No effect
Sample 12-14×55 mm	Sample. 1 Sample. 2 Sample. 3 Sample. 4 Sample. 5		No effect No effect No effect No effect No effect

----- 1 -----

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Signed for and on behalf of SGS Taiwan Ltd.

TWD 6999668

BDN FASTENERS 3RD PARTY LABORATORIES

OF



Test Report

No : DV-22-00654 Report

Page Date of Report : Mar. 25,2023

TEST RESULTS:

Test Item(s)	Test Method	Test Result(s)
UV Exposure Test (2000 h)			
Sample 12-14×65 mm	Sample. 1 Sample. 2 Sample. 3 Sample. 4 Sample. 5	ASTM G154-16	No effect No effect No effect No effect No effect
Sample 12-14×75 mm	Sample. 1 Sample. 2 Sample. 3 Sample. 4 Sample. 5		No effect No effect No effect No effect No effect

Test Item(s)	Test Method	Test Result(s)
Humidity Test [(38±2)°C, (95±5)RH, 1000 h]			
Sample 12-14×25 mm	Sample. 1 Sample. 2 Sample. 3 Sample. 4 Sample. 5	ASTM D2247-15(2020)	No effect No effect No effect No effect No effect
Sample 12-14×55 mm	Sample. 1 Sample. 2 Sample. 3 Sample. 4 Sample. 5		No effect No effect No effect No effect No effect

---- 2 -----

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BDN FASTENERS 3RD PARTY LABORATORIES



Test Report

Report No : DV-22-00654

Date of Report : Mar. 25,2023

TEST RESULTS:

Test Item(s)	Test Method	Test Result(s)
Humidity Test [(38±2)°C, (95±5)RH, 1000 h]			
Sample 12-14×65 mm	Sample. 1 Sample. 2 Sample. 3 Sample. 4 Sample. 5	ASTM D2247-15(2020)	No effect No effect No effect No effect No effect
Sample 12-14×75 mm	Sample. 1 Sample. 2 Sample. 3 Sample. 4 Sample. 5		No effect No effect No effect No effect No effect

Remark: 1. # UV Exposure Test according to ASTM G154-16 for 2000 h and the conditions information is provided by Client as below:

(1)Lamp: UVA-340.

(2)Typical Irradiance: 0.89 W/m²/nm.

- (3)Approximate Wavelength: 340 nm. (4)Test Machine: Q-LAB QUV.
- (5) Exposure Cycle: 4h UV at 60 °C BPT; 4h Condensation at 50°C BPT.
- 2. # Humidity Test information is provided by Client as below: (38±2)°C, (95±5)RH, 1000 h.
- 3. Description of the item: Self drilling Screw.
- 4. Humidity Test is subcontracted to SGS Material and Engineering Laboratory -Tciahung.
- 5. Test location of No. 9, 14th Rd., Taichung Industrial Park, Taichung City 407271, Taiwan. Test location of other items: the same as the laboratory address.

The required specification(s) offered in this test report is/are for reference only. The conformity judgment is at the Applicant's final verdict.

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Test Report

No : DV-22-00654 Report No : 4 OF Page Date of Report : Mar. 25,2023

Test Photo [UV Exposure Test (2000 h)]:



Sample 12-14×25 mm Befer test



Sample 12-14×25 mm After test



Sample 12-14×55 mm Befer test



Sample 12-14×55 mm After test

---- 4 -----

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BDN FASTENERS 3RD PARTY LABORATORIES



Test Report

No : DV-22-00654 Report Page No : 5 7 Date of Report : Mar. 25,2023

Test Photo [UV Exposure Test (2000 h)]:



Sample 12-14×65 mm Befer test



Sample 12-14×65 mm After test



Sample 12-14×75 mm Befer test



Sample 12-14×75 mm After test

---- 5 -----

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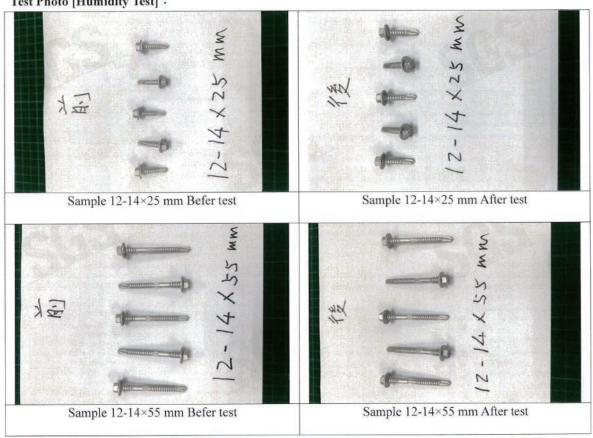
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Test Report

Report No : DV-22-00654 Page No : 6 7 Date of Report : Mar. 25,2023

Test Photo [Humidity Test]:



---- 6 -----

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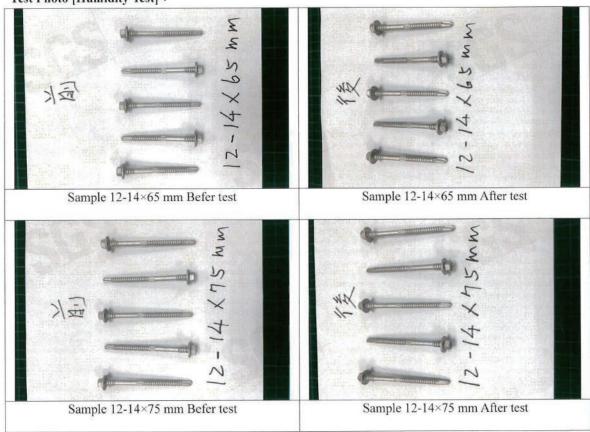
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Test Report

Report No : DV-22-00654 7 Page Date of Report : Mar. 25,2023

Test Photo [Humidity Test]:



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BDN FASTENERS 3RD PARTY LABORATORIES

Report date: Dec. 05, 2022 tested by SGS and Nov. 04, 2022 tested by PIDC

Product range: ECO-BDN GREEN EPDM WASHER

Technical Specification:

	Fastener Gauge: #	±10		
9	Outside Diameter (mm) 9.6	Inside Diameter (mm) 4.9	Thickness (mm) 2.6	
	Fastener Gauge: #12			
9	Outside Diameter (mm) 11.1	Inside Diameter (mm) 6.7	Thickness (mm) 2.6	
	Fastener Gauge: #	14		
9	Outside Diameter (mm)	Inside Diameter (mm) 7.5	Thickness (mm) 2.6	





BDN FASTENERS, quarantee that the goods from the above "Product range" complies with the Australia & International Standards details below.

ASTM Method	Test Description	Specification	Result
D2240	Shore 'A' Hardness	80 +/- 5	82
D412	Tensile Strength (Mpa)	4.0 min	7.79
D412	Elongation (%)	150 min	410
D624	Tear Strength (kN/m)	20 min	33
D395	Compression set (%)	-	27
	Heat Resistance 70hrs @100°C	-	-
D573	Tensile Strength Change (%)	+/-10	+11
D373	Elongation Change (%)	+/-25	-22
	Hardness Change (Type A/1 sec)	+/-25	+4
D1171	Resistance to Ozone (100hrs@40°C)	-	100ppm No cracks
D2137	Low Temperature Brittleness (3min@-50°C)	-	Non-brittle
D257	Surface Resistivity (Ω)	-	Non-condutive
D237	Volume Resistivity(Ω-cm)	-	Non-condutive





Material and Engineering Laboratory-Kaohsiung

Test Report

: KV-22-08611 Report No. Page No.

Date of Report: Dec. 05,2022

BROADEN WORLDWIDE CO., LTD.

Product Name Product Submitted By ECO-BDN GREEN EPDM WASHER BROADEN WORLDWIDE CO., LTD.

Date of Sample Received Oct. 25, 2022

Date of Testing

Oct. 25, 2022~Dec. 05, 2022

Remark

The information mentioned in the above section and the following report content marks # are provided by Client. (Exclude Product Name,

Product Submitted By, Date of Sample Received and Date of Testing)

The laboratory tests according to the test requests and samples provided by client, and the results are as follows:

Test Request:

- 1. Tensile strength and Elongation
- 2. Hardness
- 3. Heat Aging
 - 3.1 Tensile Strength and Elongation Change
 - 3.2 Hardness change
- 4. Compression set
- 5. Brittleness Temperature
- 6. Tear Strength
- 7.Ozone Resistance

Test Method: Please see attached pages

Test Result: Please see attached pages

---- 1 -----

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Material and Engineering Laboratory-Kaohsiung

Test Report

Report No.

Page No. Date of Report: Dec. 05,2022

1. Tensile strength and Elongation

Test Equipment:

Name	Brand	Model
Universal Testing Machine	INSTRON	5566A

Lab Environmental Conditions:

Ambient Temperature : (23 ± 2) °C Relative humidity : $(50 \pm 5) \%$

Test Method:

ASTM D412-16 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension.

Test Condition:

Specimens Condition : Condition 48 h at 23 \pm 2 °C and 50 \pm 5 % relative humidity.

Type of test piece was used: Die C

Gauge length: 25 mm. Testing rate: 500 mm/min.

Test Result:

Test Item	Test Result
Tensile strength (MPa)	7.79
Elongation (%)	410

---- 2 -----

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Material and Engineering Laboratory-Kaohsiung

Test Report

: KV-22-08611 Report No. Page No.

Date of Report: Dec. 05,2022

2.Hardness

Test Equipment:

Name	Brand	Model
Hardness tester	TECLOCK	Type A GS-709N

Lab Environmental Conditions:

Ambient Temperature: (23 ± 2) °C Relative humidity: $(50 \pm 5) \%$

Test Method:

ASTM D2240-15^{E1} Standard Test Methods for Rubber Property - Durometer Hardness.

Test Condition:

Specimens Condition : Condition 48 h at 23 ± 2 °C and 50 ± 5 % relative humidity.

Indentor Type: Type A Reading Time: 1 sec.

Test Result:

Test Item	Test Result
Hardness (Type A/1 sec)	82

---- 3 -----

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Material and Engineering Laboratory-Kaohsiung

Test Report

: KV-22-08611 Report No.

Page No.

Date of Report: Dec. 05,2022

3.Heat Aging Test Equipment:

Name	Brand	Model
Universal Testing Machine	INSTRON	5566A
Aging Tester	RISEN	SAT-60
Hardness tester	TECLOCK	Type A GS-709N

Lab Environmental Conditions:

Ambient Temperature : (23 ± 2) °C Relative humidity : (50 ± 5) %

Test Method:

ASTM D573-04 Standard Test Method for Rubber-Deterioration in an Air Oven

Test Condition:

Test time: 70 h

Test temperature: 100 °C

Test Result:

Test Item	Test Result
Tensile strength Change (%)	+ 11
Elongation Change (%)	- 22
Hardness Change(Type A/1 sec)	+ 4

---- 4 -----

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Material and Engineering Laboratory-Kaohsiung

Test Report

: KV-22-08611 Report No. Page No.

Date of Report: Dec. 05,2022

4. Compression set Test Equipment:

Name	Brand	Model
Aging Tester	RISEN	SAT-60
Micrometer	Mitutoyo	ID-S1012M

Lab Environmental Conditions:

Ambient Temperature: (23 ± 2) °C Relative humidity : $(50 \pm 10) \%$

Test Method:

ASTM D395-18 Standard Test Methods for Rubber Property Compression Set¹ (Method B)

Test Condition:

Test temperature: 70 °C

Test time: 22 h

Compression ratio: 25 % Spacer thickness: 9.51 mm

Test Result:

Test Item	Test Result
Compression set (%)	27

---- 5 -----

The required specification(s) offered in this test report is/are for reference only. The conformity judgment is at the Applicant's final verdict.

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Material and Engineering Laboratory-Kaohsiung

Test Report

Report No.

Page No. Date of Report: Dec. 05,2022

5.Brittleness Temperature

Test Equipment:

Name	Brand	Model
Brittleness Temperature Tester	GOTECH	GT-7061-D

Test Method:

ASTM D2137-11 Standard Test Methods for Rubber Property-Brittleness Point of Flexible Polymers and Coated Fabrics1

Test Condition:

Test time: 3 min.

Test temperature: - 50 °C Specimen shape: Type A

Conductive material: 95 % Alcohol

Test Result:

Test Item	Test Result
	Test number: 10
Brittleness Temperature	Failure number: 0

---- 6 -----

The required specification(s) offered in this test report is/are for reference only. The conformity judgment is at the Applicant's final verdict.

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Material and Engineering Laboratory-Kaohsiung

Test Report

Report No. : KV-22-08611 Page No.

Date of Report: Dec. 05,2022

6. Tear Strength Test Equipment:

Name	Brand	Model
Universal Testing Machine	INSTRON	5566A

Lab Environmental Conditions:

Ambient Temperature : (23 ± 2) °C Relative humidity: $(50 \pm 5) \%$

Test Method:

ASTM D624-00 Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers¹

Test Condition:

Specimens Condition : Condition 48 h at 23 ± 2 °C and 50 ± 5 % relative humidity.

Type of test piece was used: Die C

Testing rate: 500 mm/min.

Test Result:

Test Item	Test Result
Tear strength (kN/m)	33.0

The required specification(s) offered in this test report is/are for reference only. The conformity judgment is at the Applicant's final verdict.





Material and Engineering Laboratory-Kaohsiung

Test Report

: KV-22-08611 Report No. Page No.

Date of Report: Dec. 05,2022

7.Ozone Resistance Test Equipment:

Name	Brand	Model
Ozone Chamber	U-CAN	UA-2074

Lab Environmental Conditions:

Ambient Temperature : (23 ± 2) °C Relative humidity: $(50 \pm 5) \%$

Test Method:

Ref.ASTM D1171-18 Standard Test Method for Rubber Deterioration - Surface Ozone Cracking Outdoors (Triangular Specimens)1

Test Condition:

Ozone Concentration: 100 pphm

Test Temperature: 40 °C

Test Time: 100 h

Strain of Elongation: 20 %

Test Result:

Test Item	Test Result	
Ozone Resistance	No cracks on the surface of the specimen	

Remark: Test location is the same as the laboratory address.

---- oOo -----

The required specification(s) offered in this test report is/are for reference only. The conformity judgment is at the Applicant's final verdict.

BDN FASTENERS 3RD PARTY LABORATORIES



Polymer Materials Analysis Laboratory Analysis/Test Report

Date Received:

2022/10/26

Assignment No:

111A011-J112229

Date Issued:

2022/11/09

Applicant: Broaden Worldwide Co., Ltd.

Address: No. 47-37, Jiahua Rd., Gangshan Dist.,

Kaohsiung City 820104, Taiwan (R.O.C)

Articles: Eco-BDN®Green EPDM Washer

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Authorized by

Group Leader



BDN FASTENERS 3RD PARTY LABORATORIES



Polymer Materials Analysis Laboratory Analysis/Test Report

Application No:

111A011-J112229

Date Tested:

2022/11/04

Item(s)/ Method(s)

Result(s)

Note

1. Surface Resistivity Ref. ASTM D257

	Surface Resistivity (Ω)	
#1	2.97×10 ⁶	
#2	5.97×10 ⁶	
#3	2.04×10^{6}	
Mean	3.66×10^6	
SD	2.1×10 ⁶	

2. Volume Resistivity Ref. ASTM D257

	Volume Resistivity (Ω -cm)
#1	1.85×10 ⁷
#2	1.40×10 ⁸
#3	1.21×10 ⁸
Mean	9.32×10 ⁷
SD	6.5×10^{7}

REMARK:

- 1. Surface Resistivity
 - 1.1 Sample Preparation Method: Cutting molding
 - 1.2 Conditioning of Sample: 23 °C \pm 2 °C, 50 % \pm 5 % Relative Humidity, over 40 h 1.3 Conditioning of Experimental: 23 °C \pm 2 °C, 50 % \pm 5 % Relative Humidity

 - 1.4 Sample Mean Thickness: 3.11 mm
 - 1.5 Take the result to three significant figures.
- 2. Volume Resistivity
 - 2.1 Sample preparation method: Cutting molding
 - 2.2 Conditioning of sample: 23 °C \pm 2 °C, 50 % \pm 5 % relative humidity, over 40 h
 - 2.3 Conditioning of experimental: 23 °C \pm 2 °C, 50 % \pm 5 % relative humidity
 - 2.4 Sample mean thickness: 3.11 mm
 - 2.5 Test voltage: 10 V
 - 2.6 Test time: 60 sec
 - 2.7 Take the result to three significant figures.

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TEST CERTIFICATES 3RD PARTY LABORATORIES

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