



Test Report

No.: SHHL1611067242SP

Date: NOV. 21, 2016

Page: 1 of 5

NINGBO SWAN SPORTS APPLIANCE MANUFACTURING CO., LTD
NO.51 LANE 776, YUFAN EAST ROAD, ZHENHAI, NINGBO, ZHEJIANG, CHINA

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

Sample Description : QUAD SKATES
Style/ Item No. : TE-725
Manufacturer : NINGBO SWAN SPORTS APPLIANCE MANUFACTURING CO., LTD
Supplier : NINGBO SWAN SPORTS APPLIANCE MANUFACTURING CO., LTD
Sample Receiving Date : NOV. 14, 2016
Testing Period : NOV. 14, 2016 TO NOV. 21, 2016
Test Performed : SELECTED TEST(S) AS REQUESTED BY APPLICANT
Test Requested : EN13899: 2003 ROLLER SPORTS EQUIPMENT— ROLLER SKATES
– SAFETY REQUIREMENTS AND TEST METHODS(EXCLUDING
CLAUSE 6 & CLAUSE 7)
Test Result(s) : FOR FURTHER DETAILS, PLEASE REFER TO THE
FOLLOWING PAGE(S)
Conclusion : THE SUBMITTED SAMPLE MET THE TEST REQUIREMENT.

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Melody Zhang
Authorized Signatory



Unless otherwise agreed in writing, 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 herein 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.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.QCcheck@sgs.com

4th Building, No.888, Yishan Road, Xuhui District Shanghai, China 200233

1 (86) 400 960 9661

1 (86-21) 6115 6899

www.sgsgroup.com.cn

中国·上海·徐汇区宜山路888号4号楼 邮编: 200233

1 (86) 400 960 9661

1 (86-21) 6115 6899

sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Test Report

No.: SHHL1611067242SP

Date: NOV. 21, 2016

Page: 2 of 5

Test Conducted:

EN13899: 2003 Roller sports equipment—Roller skate – Safety requirements and test methods (excluding clause 6 & clause 7)

1. Scope

This standard applies to roller skates intended for users with a body mass of more than 20kg and less than 100 kg.

This standard specifies safety requirements for roller skates, specification for test methods, marking and information supplied by the manufacturer to reduce the risk of injuries to both third parties and the user during their normal use.

Roller skates for use by a user of less than 20 kg do not belong to the scope of this European Standard. They are toys.

This standard does not apply to inline-skates according to EN13843.

2. Test Sample: 2 pairs of sample.

3. Maximum user weight: 50 kg

4. Classification of skateboards: Class B

5. Test result: Details shown as following table

Clause	Test Items	Rating
4.3	Safety requirement	
4.3.1	Protruding parts and edges During the test in 5.3.2, protruding parts such as screws or lever ends shall not touch the outside of the test cylinder if they protrude by more than 10 mm with less than 100mm ² cross-sectional area, and are not shielded in all directions by an adjacent surface of equal height, whose distance is not more than 25 mm from the end of the protruding part. All edges on the roller skate which can come into contact with parts of the body during normal use shall be rendered safe, or shaped so that injuries cannot occur. Testing in accordance with 5.3.3.	Pass
4.3.2	Binding elements shall prevent unintentional detachment of the roller skate from the shoe under load. Compliance with this requirement is accepted when no breakage, disconnection, loosening or detachment occurs in roller skates with permanent binding to the shoe during the test in 5.3.7.2 and in roller skates with detachable binding to the shoe during the test 5.3.7.1. The roller skate bindings and any bracing shall not break during the bending test in 5.4.1	Pass
4.3.3	Displacement safety The safety locking or fastening elements shall not become detached or loose. Compliance with this requirement is accepted when the locking or fastening elements do not become detached or loose, and do not break after endurance testing as 5.3.10	Pass



Unless otherwise agreed in writing, 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 herein 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.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Quechek@sgs.com

4th Building, No.889, Yishan Road, Xuhui District Shanghai, China 200233

T (86) 400 960 9661

F (86-21) 6115 6899

www.sgsgroup.com.cn

中国·上海·徐汇区宜山路889号4号楼 邮编: 200233

T (86) 400 960 9661

F (86-21) 6115 6899

sgs.china@sgs.com

Test Report

No.: SHHL1611067242SP

Date: NOV. 21, 2016

Page: 3 of 5

Clause	Test Items	Rating
4.3.4	<p>Connection fillet</p> <p>The connection fillet on the heel of the roller skate shall withstand load encountered. Compliance with this requirement is accepted when, after the tests in</p> <p>-5.3.8 and 5.3.10, the connecting fillet is neither broken nor is there any apparent permanent deformation</p> <p>-5.4.2, The reduction in ground clearance in the centre is not more than 5% between the axles.</p>	Pass
4.3.5	<p>Starting and /or braking device</p> <p>The starting and /or braking device shall be designed so that it is strong and secured against unscrewing.</p> <p>Compliance with this requirement is accepted when</p> <p>a) after the test in 5.3.9, the starting and / or braking device is neither loosened, loosened, deformed, detached nor showing other signs of functional damage;</p> <p>b) No unscrewing of the starting and/or braking device is found during the test in 5.3.5</p> <p>The clearance between the bottom edge of the starting and/or braking device and the ground shall not be less than 10mm.</p>	Pass
4.3.6	<p>Rolling gear</p> <p>During operation, the rolling gear shall withstand shock loading, continuous loading and static loading, it shall be securely fastened to the shoe plate and secured against unintentional detachment.</p> <p>Compliance with technical safety requirements is accepted when no parts have become loose or detached and there is no impairment of serviceability following the tests in 5.3.10 and 5.4.2.</p>	Pass
4.3.7	<p>Axles</p> <p>The axles shall be designed and fitted so that in operation no axles can become loose, displaced or deformed, the wheels shall be secured on the axles against unintentional detachment compliance with these requirements is accepted when, after the tests in 5.3.10 and 5.4.2, No axle becomes loose, displaced or so deformed as to impair serviceability, and the rollers secured to the axles have not become detached. The rolling gear axles including associated components may only protrude by no more than 3mm beyond the outer edges of the wheels, when their ends are rounded with a radius of at least 5 mm.</p>	Pass
4.3.8	<p>Wheels</p> <p>The wheels shall be made of slip-resistant material. Compliance with this requirement is accepted when the following coefficients of friction μ_0 are obtained during the test in accordance with 5.3.5.</p> <ul style="list-style-type: none"> - Class A: min 0.30 - Class B: min 0.20 <p>Following the endurance test in 5.3.10, the wheel shall not have loosened on the bearings to the extent that there is a danger of it sliding off the bearings, or shown other signs of functional damage.</p>	Pass



Unless otherwise agreed in writing, 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 herein 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.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Quecheck@sgs.com

4th Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233 1 (86) 400 960 9661 1 (86-21) 6115 6899 www.sgsgroup.com.cn
 中国·上海·徐汇区宜山路889号4号楼 邮编: 200233 1 (86) 400 960 9661 1 (86-21) 6115 6899 e_sgs.china@sgs.com

Test Report

No.: SHHL1611067242SP

Date: NOV. 21, 2016

Page: 4 of 5

Clause	Test Items	Rating
4.3.9	Bearings The bearings shall be constructed so that no jamming of the wheels can occur during operation, They shall be designed so that maintenance in accordance with the instruction can be carried out without reducing operating safety. Dust protection covers shall not come loose during operation. The bearings shall be designed so that they are still serviceable after the endurance test in 5.3.10.	Pass
4.3.10	Self-locking nuts and other fixings In the case of self-locking nuts, the entire thread length of the nut and its locking part shall be fully engaged with the bolt. Self-locking nuts and other fixings loosened on numerous occasions for maintenance, re-assembly or adjustment procedures shall be suitable for this application. The information supplied by the manufacturer shall draw attention to the possible loss of the self-locking action of the nuts and other fixings.	Pass
4.3.11	Steering facility When the roller skate has a steering facility, this shall be designed so that, with the smallest curve radius and the thereby associated maximum load, no contact can occur between wheels and parts of the roller skate, if the steering is adjustable, the wheels shall touch no parts of the roller skate even at the lowest tension during use, Compliance with this requirement is accepted if no contact has been established between wheels and any parts of the roller skate during the test in 5.3.4. Following the endurance test in 5.3.10. No parts of the steering mechanism shall be broken nor have become detached. The steering mountings or fastening parts shall be secured against detachment with locking elements.	N/A
6	Marking	N/C
7	Information supplied by the manufacturer	N/C

Note:

1. N/A means not applicable.
2. N/C means not conducted.



Unless otherwise agreed in writing, 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 herein 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.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Qcscheck@sgs.com

4th Building, No.688, Yishen Road, Xuhui District Shanghai, China 200233 1 (86) 400 960 9661 1 (86-21) 6115 6899 www.sgsgroup.com.cn
 中国·上海·徐汇区宜山路688号4号楼 邮编: 200233 1 (86) 400 960 9661 1 (86-21) 6115 6899 sgs.china@sgs.com

Test Report

No.: SHHL1611067242SP

Date: NOV. 21, 2016

Page: 5 of 5

Sample Photo:

Received Sample



SGS authenticate the photo on original report only

End of Report



Unless otherwise agreed in writing, 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.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Qcscheck@sgs.com

4 th Building, No. 688, Yishen Road, Xuhui District Shanghai, China 200233	1 (86) 400 960 9661	1 (86-21) 6115 6899	www.sgsgroup.com.cn
中国·上海·徐汇区宜山路688号4号楼 邮编: 200233	1 (86) 400 960 9661	1 (86-21) 6115 6899	sgs.china@sgs.com