



Test Report

No.: SHHL1607043388SP

Date: AUG. 11, 2016

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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 : INLINE SKATES
Style/ Item No. : TE-781
Manufacturer : NINGBO SWAN SPORTS APPLIANCE
MANUFACTURING CO., LTD
Supplier : NINGBO SWAN SPORTS APPLIANCE
MANUFACTURING CO., LTD
Sample Receiving Date : JUL. 28, 2016
Testing Period : JUL. 28, 2016 TO AUG. 11, 2016
Test Performed : SELECTED TEST(S) AS REQUESTED BY APPLICANT
Test Requested : EN 13843: 2009 ROLLER SPORTS EQUIPMENT—
INLINE-SKATES – SAFETY REQUIREMENTS AND TEST
METHODS
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



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Member of the SGS Group (SGS SA)

Test Conducted:

EN13843: 2009 Roller sports equipment—Inline-skates – Safety requirements and test methods

1. Scope

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

It specifies safety requirements for inline-skates, specifications 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.

Inline-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 roller skates according to EN 13899.

2. Test Sample: 1 pair of inline-skate.

3. Maximum user weight: 100KG

4. Classification of inline-skates: Class A

5. Test result: Details shown as following table:

Clause	Test items	Rating
4	Requirements	
4.1	General	
4.2	Classification of inline-skates	
4.2.1	Class A Inline-skates intended for use by a user mass of more than 20kg up to 100kg.	
4.2.2	Class B Inline-skates intended for use by a user mass of more than 20kg up to 60kg and a length of the foot of no more than 260mm.	
4.3	Safety requirements	



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Clause	Test items	Rating
4.3.1	<p>Protruding component and edges</p> <p>All protruding components and edges on the inline-skate that can come into contact with body parts during normal use shall be deburred or constructed in such a way as to prevent injury.</p> <p>The test is carried out according to 5.4.2.</p>	Pass
4.3.2	<p>Binding elements</p> <p>Binding elements shall prevent unintentional disconnection from the user's foot.</p> <p>This requirement is considered to be fulfilled if the correct functioning of the inline-skate is not impeded by broken, disconnected or loosened binding elements after the tests according to clause 5.</p>	Pass
4.3.3	Chassis	
4.3.3.1	<p>General</p> <p>The chassis consists of one or more supports, axles, wheels, bearings and fixings. It shall withstand the impact loads, the constant load and the static load to which it is exposed during use. The chassis shall be attached to the shoe and/or shoe mounting in such a way as to be secured against unintentional loosening.</p> <p>These requirements are considered to be fulfilled if the correct functioning of the inline-skate is not impeded by broken, disconnected or loosened binding elements after the tests according to clause 5.</p>	Pass
4.3.3.2	<p>Axles</p> <p>The axles shall be attached and designed in such a way as to ensure that they cannot become loose, displaced or deformed during use. The wheels shall be secured on the axles against unintentional loosening. These requirements are considered to be fulfilled if the axles are not loosened, deformed or displaced to such an extent as to impair proper functioning, and the wheels have not become loose after the tests according to clause 5.</p>	Pass



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Clause	Test items	Rating
4.3.3.3	<p>Wheels</p> <p>The wheels shall be constructed from non-slip material. This requirement is considered to be fulfilled if a coefficient of adhesion μ_0 of least 0.30 is achieved in the test according to 5.3.4.</p> <p>After the tests according to clause 5, the wheels shall not show tears, They shall further not have loosened or be deformed to the extent that a risk of their becoming blocked exists.</p>	Pass
4.3.3.4	<p>Bearings</p> <p>The bearing shall be laid out in such a way as to be functional after the tests according to clause 5. They shall be constructed in such a way as to permit servicing according to the user information without impairment of their operational safety.</p>	Pass
4.3.4	<p>Starting and/or braking devices</p> <p>If an inline-skate is equipment with a starting and/or braking device, this device shall be unbreakable and secured against loosening. It shall not cause an unintentional impediment of the inline-skates' motion</p> <p>These requirements are considered to be fulfilled if the test according to cause 5 did not cause a noticeable loosening of the starting and/or raking device.</p> <p>The clearance between the starting and/or braking device and the ground is required to prevent unintentional braking. This requirement is considered to be fulfilled, if this clearance is at least 7mm but not more than 17mm.</p>	Pass
4.3.5	<p>Self-locking fixings</p> <p>Where self-locking nuts are used, the entire thread, including the locking section, shall be in contact with the bolt, Self-locking nuts and other self-locking fixings that are loosened several times for the purpose of modification or servicing, shall be suitable for this purpose. The user information shall indicate when self-locking nuts and other self-locking elements can loose their effectiveness.</p>	Pass



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Clause	Test items	Rating
6.	<p>Marking</p> <p>Each inline-skate shall be legibly and durably marked with the following information:</p> <p>a) the number of this European Standard;</p> <p>b) the name, trademark or other means of identification of the manufacturer or retailer;</p> <p>c) means of identification of the model;</p> <p>d) maximum weight limit or indication of the class (A or B). If the maximum weight limit is not marked this shall be given in the package.</p>	Pass
7	Information supplied by the manufacturer	
7.1	<p>General</p> <p>Easily understood information supplied by the manufacturer shall be supplied with each pair of inline-skates. This shall ensure that even a novice user will be able to use, handle and maintain the inline-skates. Texts describing difficult or complicated operations are to be complemented with illustrations.</p> <p>The information shall be supplied together with the recommendation that this information shall be retained by the user for future reference.</p>	Pass
7.2	Contents	
7.2.1	<p>General</p> <p>The information supplied by the manufacturer shall contain, in text or picture form, at least the information in accordance with 7.2.2, 7.2.3, 7.2.4 and 7.2.5.</p>	Pass
7.2.2	<p>Information about the construction of the inline-skate</p> <p>This information shall contain at least:</p> <p>a) note to the effect that no modifications shall be made that can impair safety;</p> <p>b) note indicating, if applicable, that the inline-skates do not contain a starting and/or braking device;</p> <p>c) note indicating if self-locking nuts and other self-locking fixings may loose their effectiveness.</p>	Pass



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Clause	Test items	Rating
7.2.3	<p>Instructions for use</p> <p>The instructions for use shall contain at least:</p> <p>a) notes concerning limitations of use according to the Road Traffic Act and recommendations regarding or descriptions of suitable surfaces (flat, clean, dry and where possible away from other road users);</p> <p>b) warning that the user should always wear protective equipment (hand/wrist protection, knee protection, head protection and elbow protection) and reflective device;</p> <p>c) instruction to check that the inline-skate's steering mechanism, if present, is correctly adjusted and that the connective components are firmly secured;</p> <p>d) description of the correct techniques for use and for braking.</p>	Pass
7.2.4	<p>Servicing and maintenance instructions</p> <p>Clear note stating that regular maintenance enhances the safety of the equipment. This includes:</p> <p>a) note regarding the different properties of the various bearing constructions and their maintenance;</p> <p>a) replacement of wheels, buffers and parts of the braking device (where possible or present);</p> <p>b) lubrication of the bearings;</p> <p>c) steering adjustment;</p> <p>d) note to remove any sharp edges created through use;</p> <p>e) running checks.</p>	Pass
7.2.5	<p>Inline-skate's class</p> <p>The class including the explanation in 4.2 is to be stated.</p>	Pass

Remark:

Only electronic making and instruction were provided.



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