

Test Report	No.: CZHL1807000350SP	Date: AUG. 08, 2018	Page: 1 of 11
NINGBO SWAN SPORTS A	PPLIANCE 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
Item No.	:0016941,0016861/2/3,0017191,0017192
Manufacturer	: NINGBO SWAN SPORTS APPLIANCE
	MANUFACTURING CO., LTD
Supplier	: NINGBO SWAN SPORTS APPLIANCE
	MANUFACTURING CO., LTD
Sample Color	: GREEN/RED/BLUE/PINK
Test Sample Color	: GREEN/RED
Country of Destination	: SPAIN
Sample Receiving Date	: JUL. 10, 2018
Testing Period	: JUL. 10, 2018 TO AUG. 08, 2018
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)



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No.: CZHL1807000350SP Date: AUG. 08, 2018 Page: 2 of 11

Conclusion

: THE SUBMITTED SAMPLE MET THE TEST REQUIREMENT.

\*\*\*\*\*\*

Signed for and on behalf of SGS Standards Technical Services (Changzhou) Co., Ltd. Hardlines

Berix Li Authorized Signatory



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No.: CZHL1807000350SP

Date: AUG. 08, 2018 Page: 3 of 11

**Test Conducted:** 

### EN 13843: 2009 Roller sports equipment—Inline-skates - Safety requirements and test

#### methods

1. Scope

This standard is applicable to inline-skates intended for users with a body mass of more than 20 kg 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 rider of less than 20 kg do not belong to the scope of this European Standard. They are toys.

- 2. This Standard does not apply to roller skates according to EN 13899.
- 3. Test Sample: 1 pair.
- 4. Classification of inline-skates: Class B
- 5. Test result: Details shown as following table:

Clause	Test items	Rating	
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		
4.3.1	Protruding component and edges 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. The test is carried out according to 5.4.2.	Pass (See Remark)	



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No.: CZHL1807000350SP

Date: AUG. 08, 2018 Page: 4 of 11

Clause	Test items	Rating
4.3.2	Binding elements Binding elements shall prevent unintentional disconnection from the user's foot. 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.	Pass (See Remark)
4.3.3	Chassis	
4.3.3.1	General 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. 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 clause5.	Pass (See Remark)
4.3.3.2	Axles 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.	Pass (See Remark)



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No.: CZHL1807000350SP

Date: AUG. 08, 2018 Page: 5 of 11

Clause	Test items	Rating
4.3.3.3	Wheels The wheels shall be constructed from non-slip material. This requirement is considered to be fulfilled if a coefficient of adhesion $\mu_{\circ}$ of least 0.30 is achieved in the test according to 5.4.3 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.	Pass (See Remark)
4.3.3.4	Bearings 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.	Pass (See Remark)
4.3.4	Starting and/or braking devices 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 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. 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.	Pass (See Remark)
4.3.5	Self-locking fixings 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.	Pass (See Remark)





No.: CZHL1807000350SP

Date: AUG. 08, 2018 Page: 6 of 11

Clause	Test items	Rating
	Marking	
	Each inline-skate shall be legibly and durably marked with the following	
	information:	
	a) the number of this European Standard;	
6.	b) the name, trademark or other means of identification of the manufacturer	N/C
	or retailer;	
	c) means of identification of the model;	
	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.	
7	Information supplied by the manufacturer	
	General	
	Easily understood information supplied by the manufacturer shall be	
	supplied with each pair of inline-skates. This shall ensure that even a novice	
7.1	user will be able to use, handle and maintain the inline-skates. Texts	N/C
7.1	describing difficult or complicated operations are to be complemented with	N/C
	illustrations.	
	The information shall be supplied together with the recommendation that	
	this information shall be retained by the user for future reference.	
7.2	Contents	
	General	
7.2.1	The information supplied by the manufacturer shall contain, in text or picture	N/C
	form, at least the information in accordance with 7.2.2, 7.2.3, 7.2.4 and	
	7.2.5.	



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No.: CZHL1807000350SP

Date: AUG. 08, 2018 Page: 7 of 11

Clause	Test items	Rating	
7.2.2	Information about the construction of the inline-skate		
	This information shall contain at least:		
	a) note to the effect that no modifications shall be made that can impair		
	safety;	N/C	
,	b) note indicating, if applicable, that the inline-skates do not contain a		
	starting and/or braking device;		
	c) note indicating if self-locking nuts and other self-locking fixings may loose		
	their effectiveness.		
	Instructions for use		
	The instructions for use shall contain at least:		
	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);		
7.2.3	b) warning that the user should always wear protective equipment	N/C	
	(hand/wrist protection, knee protection, head protection and elbow		
	protection) and reflective device;		
	c) instruction to check that the inline-skate's steering mechanism, if present,		
	is correctly adjusted and that the connective components are firmly		
	secured;		
	d) description of the correct techniques for use and for braking.		



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No.: CZHL1807000350SP

### Date: AUG. 08, 2018 Page: 8 of 11

Clause	Test items	Rating
7.2.4	Servicing and maintenance instructions	
	Clear note stating that regular maintenance enhances the safety of the	
	equipment.	
	This includes:	
	a) note regarding the different properties of the various bearing	
	constructions and their maintenance;	N/C
	a) replacement of wheels, buffers and parts of the braking device (where	N/C
	possible or present);	
	b) lubrication of the bearings;	
	c) steering adjustment;	
	d) note to remove any sharp edges created through use;	
	e) running checks.	

Note:

- 1. N/A =Not applicable;
- 2. N/C=Not conducted (As per client's requirement).
- 3. All test results were copied from report No.CZHL1807000349SP,Date: AUG. 08, 2018.

#### **Remark:**

- 1. Test sample A(With adjustable mechanism),Test sample B(Retest sample: with non-adjustable mechanism);
- 2. The submitted sample A: except for EN 13843:2009 clause 4.3.3.1&4.3.4, other physical test results were meet the requirement;
- 3. The submitted sample B: only meet the requirement EN 13843:2009 clause 4.3.3.1&4.3.4.



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No.: CZHL1807000350SP

Date: AUG. 08, 2018 Page: 9 of 11





RED (Test Sample A)





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No.: CZHL1807000350SP

Date: AUG. 08, 2018 Page: 10 of 11

Green(Test Sample B)





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