

# Test Report

No.: GZHL1704015039CE

Date: Jul 06, 2017

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AURORA SPORTS LIMITED  
#1501-1502, HECHENGSHIJI BUILDING, WUHE AVENUE, BANTIAN TOWN, LONGGANG DISTRICT,  
SHENZHEN, GUANGDONG, CHINA

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

Sample Description : CLIMBING HELMET  
Style / Item No. : AU-M02  
Size : 51cm-62cm  
Manufacturer : AURORA SPORTS LIMITED.  
Test Performed : EN 12492:2012,  
Analysis of Azo Dye,  
To Determine the pH Value,  
Color Fastness to Perspiration  
Sample Receiving Date : Apr 21, 2017  
1<sup>ST</sup> Sample Resubmission Date : Jun 05, 2017  
2<sup>ND</sup> Sample Resubmission Date : Jun 29, 2017  
Test Performing Date : Apr 21, 2017 to Jul 04, 2017  
Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of  
Guangzhou Branch,  
SGS-CSTC Ltd.

Lell Wu  
Approved Signatory



**I. Test Conducted:** Based on **EN 12492:2012** Helmets for mountaineers–Safety requirements and test methods

**Number of Tested Sample:** 11 piece(s)

**Test Results:** Details shown as following table

Clause	Test Item / Test Requirement / Test Method	Test Result
<b>4.1</b>	<b>Construction requirements</b>	
<b>4.1.1</b>	<b>Materials</b> For those parts of the helmet that come into contact with the skin, materials which are known to be likely to cause skin irritation or any adverse effect on health shall not be used. For a material not in general use, advice as to its suitability shall be sought before its introduction	Pass
<b>4.1.2</b>	<b>Projections</b> There shall be no sharp edges, roughness or projection on any part of the helmet which is in contact or potential contact with the wearer when the helmet is worn, such as is likely to cause injury to the wearer.	Pass
<b>4.1.3</b>	<b>Retention system</b> The helmet shall be fitted with a retention system, including a chin strap. The retention system shall have at least three separate points of attachment to the shell. The chin strap shall be adjustable in length. That part of the chin strap which comes into contact with the jaw shall have a minimum width of 15mm under a load of 250N.	Pass
<b>4.1.4</b>	<b>Ventilation</b> All helmets shall be ventilated The sum of the cross-sectional areas of such ventilation shall not be less than 4 cm <sup>2</sup> when measured on the surface of the helmet.	Pass
<b>4.2</b>	<b>Performance requirements</b>	
<b>4.2.1</b>	<b>Shock absorption</b>	
<b>4.2.1.1</b>	<b>Vertical energy absorption capacity</b> When a helmet is tested by the method described in 5.5, the force transmitted to the headform shall not exceed 10 kN, for a drop height of (2000±10) mm of the hemispherical striker described in 5.5.3.4	Pass  See annex 2
<b>4.2.1.2</b>	<b>Front energy absorption capacity</b> When a helmet is tested by the method described in 5.5, the force transmitted to the headform shall not exceed 10 kN, for a drop height of (500±10) mm of the flat striker described in 5.5.3.4	
<b>4.2.1.3</b>	<b>Side energy absorption capacity</b> When a helmet is tested by the method described in 5.5, the force transmitted to the headform shall not exceed 10 kN, for a drop height of (500±10) mm of the flat striker described in 5.5.3.4	
<b>4.2.1.4</b>	<b>Rear energy absorption capacity</b> When a helmet is tested by the method described in 5.5, the force transmitted to the headform shall not exceed 10 kN, for a drop height of (500±10) mm of the flat striker described in 5.5.3.4	
<b>4.2.2</b>	<b>Penetration</b> When a helmet is tested on two points of impact, apart from each other as at least 50 mm, by the method described in 5.6, there shall be no contact between the striker and the headform, for a drop height of 1000±5mm of the conical striker described in 5.6.3.4	Pass See annex 3



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Clause	Test Item / Test Requirement / Test Method	Test Result
4.2.3	<b>Retention system strength</b> When a helmet is tested by the method described in 5.7, the maximum elongation of the whole system shall not exceed 25mm	Pass See annex 4
4.2.4	<b>Retention system effectiveness (Roll off)</b> When a helmet is tested by the method described in 5.8, for the front way and rear way tests, the helmet shall not come off the headform.	Pass See annex 5
6.1	<b>Marking</b> Each helmet shall be marked in such a way that the following information is easily legible by the user and is likely to remain legible throughout the lift of the helmet:	--
	a) the number of this European Standard;	Pass
	b) the name or trademark of the manufacture and/or his authorized representative;	Pass
	c) the designation of the model;	Pass
	d) the year and quarter of manufacture;	Pass
	e) the size or size range (in cm)	Pass
6.2	<b>Labeling</b> A label shall be attached to each helmet when offered to sales, giving the following instructions, at least in the official language(s) of the Member State of destination:	--
	a) The designation "Helmet for mountaineers".	Pass
	b) For adequate protection this helmet has to fit or to be adjusted to the size of the user's head.	Pass
	c) The helmet is made to absorb the energy of a blow by partial destruction or damage, and even though such damage may not be readily apparent, any helmet subjected to severe impact should be replaced.	Pass
	d) The attention of the users is also drawn to the damage of modifying or removing any of the original component parts of the helmet, other than as recommended by the helmet manufacturer. Helmets should not be adapted for the purpose of fitting attachments in any way not recommended by the helmet manufacturer.	Pass
	e) Do not apply paint, solvents, adhesives or self-adhesive labels, except in accordance with instructions from the helmet manufacturer.	Pass
	f) For cleaning, maintenance or disinfection, use only substances that have no adverse effect on the helmet and are not known to be likely to have any adverse effect upon the wearer, when applied in accordance with the manufacturer's instructions and information.	Pass
7	<b>Information supplied by the manufacturer</b> The following information, provided precisely and comprehensibly in the official language(s) of the country of sale, shall accompany each helmet:	--
	a) the name and address of the manufacturer and/or his authorized representative established in the community;	Pass
	b) instruction or recommendations regarding adjustment, fitting, use, cleaning, disinfection, maintenance, servicing and storage;	Pass
	c) details of suitable accessories and appropriate spare parts;	Pass
	d) relevant information regarding the obsolescence deadline or period of obsolescence of the helmet and component parts;	Pass
	e) relevant information regarding details of the type of packaging suitable for storage and transporting to the point of sale	Pass



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### Annex1: Sample weight record

Sample No.	Sizes	Weight (g)	Sample No.	Sizes	Weight (g)	Sample No.	Sizes	Weight (g)
1	Largest size 51-62 cm	432	5	Largest size 51-62 cm	431	9	Largest size 51-62 cm	435
2	Largest size 51-62 cm	433	6	Largest size 51-62 cm	429	10	Smallest size 51-62 cm	429
3	Smallest size 51-62 cm	430	7	Smallest size 51-62 cm	429	11	Smallest size 51-62 cm	426
4	Smallest size 51-62 cm	427	8	Smallest size 51-62 cm	431	12	---	---

### Annex2: Resistance to shock test data

Test Specification: EN 12492:2012-5.5

Ambient temperature at time of test: 22 °C

Conditioning	Sample No.	Sizes (cm)	Head form (EN960:2006)	Test site	Striker	Velocity (m/s)	Peak force (N)	Result
Thermal plus (Clause 5.3.3)	1	51-62	605	Top	Hemi	6.02	6592.7	Pass
Thermal minus (Clause 5.3.4)	2	51-62	605	Top	Hemi	6.04	6922.3	Pass
UV ageing (Clause 5.3.2)	3	51-62	535	Top	Hemi	6.02	6712.5	Pass
Thermal plus (Clause 5.3.3)	4	51-62	535	Front	Flat	3.04	3326.3	Pass
Thermal minus (Clause 5.3.4)	5	51-62	605	Side	Flat	3.05	4794.7	Pass
UV ageing (Clause 5.3.2)	6	51-62	605	Rear	Flat	3.04	3566.0	Pass

### Annex 3: Resistance to penetration

Test Specification: EN 12492:2012-5.6

Ambient temperature at time of test: 22 °C

Conditioning	Sample No.	Sizes (cm)	Head form	Test site	Test description	Result
Thermal plus (Clause 5.3.3)	7	51-62	Test block (Clause 5.6.3.3)	1	Not contact with the Test block	Pass
				2	Not contact with the Test block	Pass
Thermal minus (Clause 5.3.4)	8	51-62		3	Not contact with the Test block	Pass
				4	Not contact with the Test block	Pass
UV ageing (Clause 5.3.2)	9	51-62		5	Not contact with the Test block	Pass
				6	Not contact with the Test block	Pass



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**Annex 4: Retention system test data**

Test Specification: EN 12492:2012-5.7

Ambient temperature at time of test: 22 °C

Conditioning	Sample No.	Sizes	Elongation (P1-P0) mm	Result
Ambient	10	51-62	24.6	Pass

**Annex 5: Retention system effectiveness (roll off)**

Test Specification: EN 12492:2012-5.8

Ambient temperature at time of test: 22 °C

Conditioning	Sample No.	Test direction	Test data or result description	Result
Ambient	11	Front way	Helmet remained on the headform after testing	Pass
		Rear way	Helmet remained on the headform after testing	Pass

**II. Analysis of AZO Dye and to Determine the PH Value in the submitted sample.**

SGS Ref No.: CAN17-072837

Test Requested	Result
To determine the pH Value in the submitted sample(s).	See Results
Determination of Azodyes in the submitted sample(s) with reference to the Entry 43 of Commission Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2002/61/EC).	PASS

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN17-072837.001	Dark grey fabric strap
SN2	CAN17-072837.002	Black fabric

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated



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### pH value

Test Method : With reference to ISO 3071:2005, analysis was performed by pH meter.

Test Item(s)	001	002
pH value	6.1	6.0

### Azo Dyes

Test Method : With reference to EN 14362-1 :2012 - Analysis was conducted with GC-MS/HPLC-DAD.

Test Item(s)	CAS NO.	Limit	Unit	MDL	001	002
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND	ND
Benzidine	92-87-5	30	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	30	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	30	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	30	mg/kg	5	ND	ND
5-nitro-o-toluidine /	99-55-8	30	mg/kg	5	ND	ND
2-Amino-4-nitrotoluene						
4-chloroaniline	106-47-8	30	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine	615-05-4	30	mg/kg	5	ND	ND
/ 2,4-Diaminoanisole						
4,4'-diaminodiphenylmethane	101-77-9	30	mg/kg	5	ND	ND
3,3'-dichlorobenzidine	91-94-1	30	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	30	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	30	mg/kg	5	ND	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane /	838-88-0	30	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine						
p-cresidine	120-71-8	30	mg/kg	5	ND	ND
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	30	mg/kg	5	ND	ND
4,4'-oxydianiline	101-80-4	30	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	30	mg/kg	5	ND	ND
o-toluidine	95-53-4	30	mg/kg	5	ND	ND
4-methyl-m-phenylenediamine /	95-80-7	30	mg/kg	5	ND	ND
2,4-Toluyldiamine						
2,4,5-trimethylaniline	137-17-7	30	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	30	mg/kg	5	ND	ND
O-Anisidine	90-04-0	30	mg/kg	5	ND	ND
<b>Comment</b>					<b>PASS</b>	<b>PASS</b>



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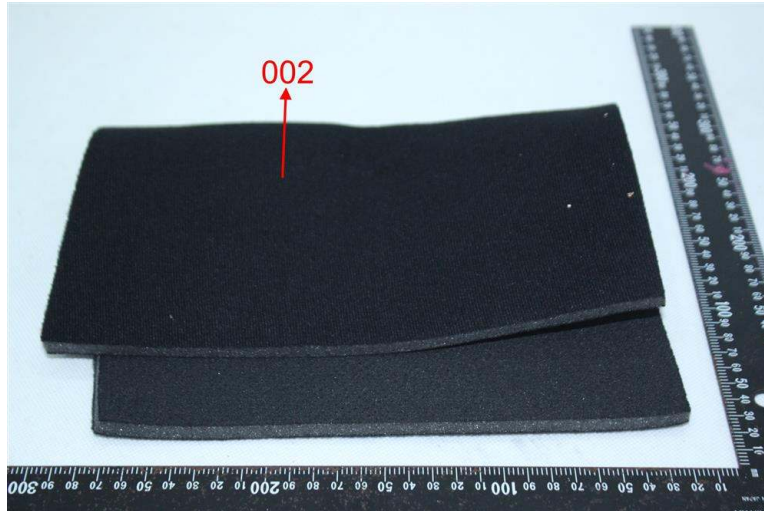
Notes :

- (1) Test specimen was taken randomly from the sample submitted by client/applicant.
- (2) Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.
- (3) In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylene-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.
- (4) In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

Requirement :  $\leq 30$  mg/kg for each of aromatic amine according to Requirement of Entry 43 of Regulation (EC) No. 552/2009 amending Annex XVII of REACH Regulation (EC) No. 1907/2006 (previously restricted under Directive 2002/61/EC).

Sample photo:





**III. Colour Fastness to Perspiration.**

SGS Ref. No.: SL917092143761TX  
 Two samples of (A)1# strap (B)2# black fabric for Climbing helmet.

**Test Result:**

**Colour Fastness To Perspiration**  
 (ISO 105-E04:2013 ; test specimen in vertical position.)

<u>Acid</u>	<u>(A)</u>	<u>(B)</u>
Change in shade	4-5	4-5
Staining on multi-fiber stripe		
Acetate	4	4-5
Cotton	4-5	4-5
Nylon	4	4-5
Polyester	4-5	4-5
Acrylic	4-5	4-5
Wool	4-5	4-5
 <u>Alkaline</u>	 <u>(A)</u>	 <u>(B)</u>
Change in shade	4-5	4-5
Staining on multi-fiber stripe		
Acetate	4	4-5



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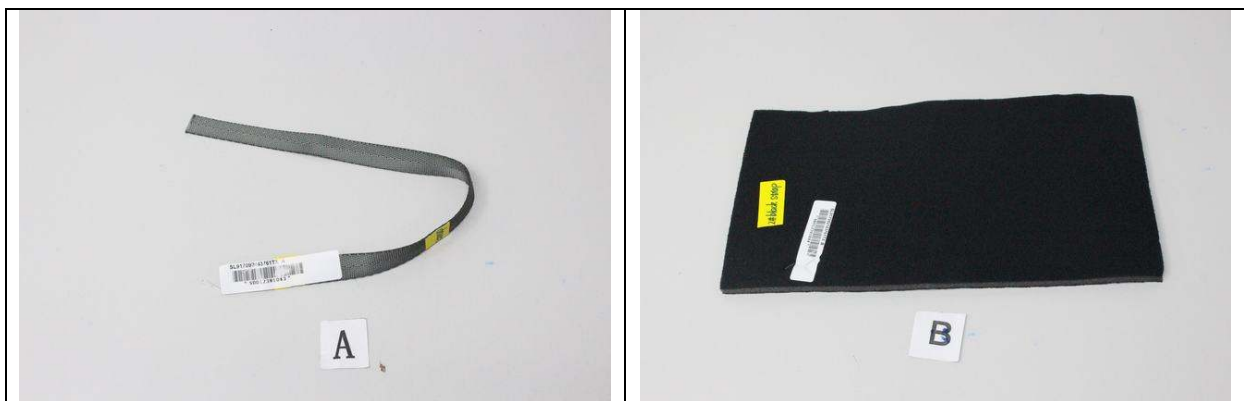
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Cotton	4-5	4-5
Nylon	4	4-5
Polyester	4-5	4-5
Acrylic	4-5	4-5
Wool	4-5	4-5

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good

### Sample Photo:



### Remark:

1. Pass means the test sample met the requirement of the test item.
2. N/A means not applicable.  
N/T means not tested as per client's request.
3. A material list for each part of the product and a statement to announce the material complying with requirements of the standard are received from the manufacturer



**Sample Photo(s):**

<p>Front view</p>	
<p>Side view</p>	



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<p>Back view</p>	
<p>Top view</p>	



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<p>Bottom view</p>	
<p>Penetration sits</p>	



<p>Penetration sits</p>	
<p>Penetration sits</p>	

\*\*\*End of Report\*\*\*



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