

**Test Report**

No.: GZHL1908033214CE

Date: Sep 04, 2020

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MEIZHOU SPOTON SPORTS EQUIPMENT TECHNOLOGY CO., LTD.  
NO. 1, LIANGNENG ROAD, SHEJIANG TOWN, MEI COUNTY, MEIZHOU, GUANGDONG, CHINA.

Sample Description : CLIMB HELMET  
Item No. : BT23  
Country of Origin : CHINA

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

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Size : 54cm-60cm  
Sample Receiving Date : Aug 14, 2019  
1<sup>ST</sup> Sample Resubmission Date : Mar 06, 2020  
2<sup>ND</sup> Sample Resubmission Date : Apr 16, 2020  
3<sup>RD</sup> Sample Resubmission Date : May 29, 2020  
Test Performing Date : Aug 14, 2019 to Sep 02, 2020  
Test Performed : EN 12492:2012

Analysis of Azo Dye,  
To Determine the pH Value,  
Color Fastness to Perspiration

Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



GZHL1908033214CE

Lell Wu  
Authorized Signatory



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**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



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 life of the helmet:	NT
	a) the number of this European Standard;	NT
	b) the name or trademark of the manufacture and/or his authorized representative;	NT
	c) the designation of the model;	NT
	d) the year and quarter of manufacture;	NT
	e) the size or size range (in cm)	NT
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:	NT
	a) The designation "Helmet for mountaineers".	NT
	b) For adequate protection this helmet has to fit or to be adjusted to the size of the user's head.	NT
	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.	NT
	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.	NT
	e) Do not apply paint, solvents, adhesives or self-adhesive labels, except in accordance with instructions from the helmet manufacturer.	NT
	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.	NT
7	<b>Information supplied by the manufacturer</b> The following information, provided precisely and comprehensively in the official language(s) of the country of sale, shall accompany each helmet:	NT
	a) the name and address of the manufacturer and/or his authorized representative established in the community;	NT
	b) instruction or recommendations regarding adjustment, fitting, use, cleaning, disinfection, maintenance, servicing and storage;	NT
	c) details of suitable accessories and appropriate spare parts;	NT
	d) relevant information regarding the obsolescence deadline or period of obsolescence of the helmet and component parts;	NT
	e) relevant information regarding details of the type of packaging suitable for storage and transporting to the point of sale	NT



**Annex 1: Sample weight record**

Sample No.	Sizes	Weight (g)	Sample No.	Sizes	Weight (g)	Sample No.	Sizes	Weight (g)
1	54-60_cm	456	5	54-60_cm	462	9	54-60_cm	451
2	54-60_cm	448	6	54-60_cm	463	10	54-60_cm	456
3	54-60_cm	449	7	54-60_cm	446	11	54-60_cm	451
4	54-60_cm	451	8	54-60_cm	449	12	---	---

**Annex 2: Resistance to shock test data**

Test Specification: EN 12492:2012-5.5

Ambient temperature at time of test: 22.2 °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	54-60	605	Top	Hemi	6.08	8482.9	Pass
Thermal minus (Clause 5.3.4)	2	54-60	605	Top	Hemi	6.08	9816.6	Pass
UV ageing (Clause 5.3.2)	3	54-60	535	Top	Hemi	6.06	9069.6	Pass
Thermal plus (Clause 5.3.3)	4	54-60	605	Front	Flat	3.05	2959.6	Pass
Thermal minus (Clause 5.3.4)	5	54-60	605	Side	Flat	3.07	3047.8	Pass
UV ageing (Clause 5.3.2)	6	54-60	535	Rear	Flat	3.09	3095.4	Pass

**Annex 3: Resistance to penetration**

Test Specification: EN 12492:2012-5.6

Ambient temperature at time of test: 22.2 °C

Conditioning	Sample No.	Sizes (cm)	Head form	Test site	Test description	Result
Thermal plus (Clause 5.3.3)	7	54-60	Test block (Clause 5.6.3.1)	1	Not contact with the Test block	Pass
				2	Not contact with the Test block	Pass
Thermal minus (Clause 5.3.4)	8	54-60		3	Not contact with the Test block	Pass
				4	Not contact with the Test block	Pass
UV ageing (Clause 5.3.2)	9	54-60		5	Not contact with the Test block	Pass
				6	Not contact with the Test block	Pass

**Annex 4: Retention system test data (SGS Ref No.: GZIN2003010633MR)**

Test Specification: BS EN 12492:2012-5.7

Ambient temperature at time of test: 22.2 °C

Conditioning	Sample No.	Sizes (cm)	Elongation (P1-P0) mm	Result
Ambient	10	54-60	21.6	Pass



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

Test Specification: BS EN 12492:2012-5.8

Ambient temperature at time of test: 22.2 °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.: CAN20-146851

Test Requested	Result
pH value	See Results
Entry 43 of Commission Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Azodyes	PASS

Test Results :

Test Part Description :

SGS Sample ID	Description
CAN20-146851.001	Black fabric(strap)
CAN20-146851.002	Black fabric sheet

Remarks :

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

**pH value**

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

Test Item(s)	001	002
pH value	6.0	6.7



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Notes :

- (1)Extraction medium: KCl solution
- (2)pH value of extraction medium: 5.0 - 7.5
- (3)Temperature of the extraction solution: 22±2° C

**Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006**

**-Azo Dyes**

Test Method : With reference to ISO 14362-1:2017, analysis was performed by GC-MS/HPLC-DAD.  
 Determination of 4-aminoazobenzene (CAS No.:60-09-3) with reference to ISO 14362-3:2017, analysis was performed by GC-MS//HPLC-DAD.

Test Item(s)	CAS NO.	Limit	Unit	MDL	001	
					Method A	Method B
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
4,4'-methylenedi-o-toluidine/3,3'-	838-88-0	30	mg/kg	5	ND	ND
Dimethyl-4,4'-diaminodiphenylm						
ethane						
p-cresidine	120-71-8	30	mg/kg	5	ND	ND
4,4' -methylene-bis-	101-14-4	30	mg/kg	5	ND	ND
(2-chloroaniline)						
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



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## Test Report

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2,4-Xylidine	95-68-1	30	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	30	mg/kg	5	ND	ND
<b>Comment</b>					<b>PASS</b>	<b>PASS</b>

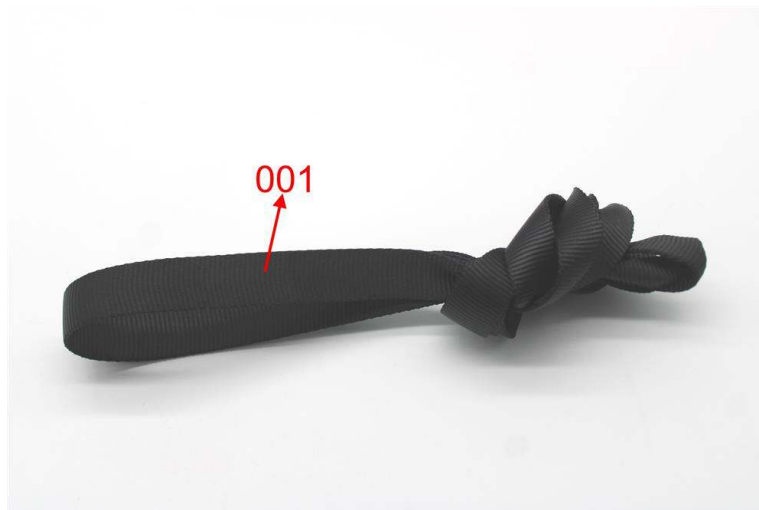
Test Item(s)	CAS NO.	Limit	Unit	MDL	002	
					Method A	Method B
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND	ND
Benzidine	92-87-5	30	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	30	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	30	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	30	mg/kg	5	ND	ND
5-nitro-o-toluidine /	99-55-8	30	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
4,4'-methylenedi-o-toluidine/3,3'-	838-88-0	30	mg/kg	5	ND	ND
Dimethyl-4,4'-diaminodiphenylm						
ethane						
p-cresidine	120-71-8	30	mg/kg	5	ND	ND
4,4' -methylene-bis-	101-14-4	30	mg/kg	5	ND	ND
(2-chloroaniline)						
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
2,4-Xylidine	95-68-1	30	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	30	mg/kg	5	ND	ND
<b>Comment</b>					<b>PASS</b>	<b>PASS</b>



Notes :

- (1) Method A is direct reduction, direct reduction refers to the extraction and reduction according to ISO 14362-1:2017 clause 10.2 and relevant clauses. Method B is colorant extraction, colorant extraction refers to the colourant extraction and subsequent reduction according to ISO 14362-1:2017 clause 10.1 and relevant clauses.
  - (2) The ISO 14362-1:2017 methods will enable further cleavage of 4 aminoazobenzene to non forbidden amines: aniline and 1,4 phenylenediamine, therefore, the test method of ISO 14362-3:2017 was employed to verify the presence of 4 aminoazobenzene.
  - (3) Max. limit specified by 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).
  - (4) 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.
- 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-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.
- 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.

Sample photo:



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**III. Colour Fastness to Perspiration.**

SGS Ref. No.: SL92009289455101TX

1#BLACK STRAP 2#BLACK PADDING

Test Result

**Colour Fastness To Perspiration**

(ISO 105-E04:2013; test specimen in vertical position)

Acid

	Unit	(A)	(B)	Requirement
Change in Shade	-	4-5	4-5	-
Staining On Multi-fibre Stripe				-
Acetate	-	4-5	4-5	-
Cotton	-	4-5	4-5	-
Polyamide	-	4-5	4-5	-
Polyester	-	4-5	4-5	-
Acrylic	-	4-5	4-5	-
Wool	-	4-5	4-5	-



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Alkaline

	Unit	(A)	(B)	Requirement
-				
Change in Shade	-	4-5	4-5	-
Staining On Multi-fibre Stripe				-
Acetate	-	4-5	4-5	-
Cotton	-	4-5	4-5	-
Polyamide	-	4-5	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 worst and 5 is best.

**Sample Photo**




**Remark:**

1. Pass means the test sample met the requirement of the test item.
2. NA means not applicable.  
NT 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 photos:

<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 sites</p>	



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<p>Penetration sites</p>	
<p>Penetration sites</p>	

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

