



No.: GZHL1901004114CE

Date: Apr 03, 2019

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POWERSLIDE SPORTARTIKELVERTRIEBS GMBH ESBACHGRABEN 1, 95463 BINDLACH, GERMANY

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

Sample Description	: POWERSLIDE ONESIE PROTECTION
Style / Item No.	: HP-S909
Range	: C
Level	: 1
Buyer	: POWERSLIDE SPORTARTIKELVERTRIEBS GMBH
Manufacturer	: HYPRO INDUSTRIAL CO., LTD
Country of Origin	: CHINA
Country of Destination	: EUROPE, US
Test Performed	: EN 14120:2003+A1:2007,
	Analysis of Azo Dye,
	To Determine the pH Value,
	Color Fastness to Perspiration
Sample Receiving Date	: Jan 28, 2019
Sample Resubmission Date	: Mar 15, 2019
Test Performing Date	: Jan 28, 2019 to Mar 25, 2019
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





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I. Test Conducted: Based on EN 14120:2003+A1:2007 Protective clothing –Wrist, palm, knee and elbow protectors for user of roller sports equipment – requirements and test methods.

Test Results:

Clause	Test Method/Requirement	Result
4	Performance levels	
4.1	Level 1: Protectors intended to be suitable for normal roller sports.	
4.2	Level 2: Protectors intended to be suitable for use in acrobatic roller sports.	
5	Requirements	
5.1	General performance requirements shall be based on 3 weight ranges as follows: a) range A : Users of up to 25 kg body weight ; b) range B : Users of body weight between 25 kg and 50 kg ; c) range C : Users of body weight above 50 kg. Combined protectors such as wrist protectors shall meet the requirements for each protector.	
5.2	Ergonomics Protectors shall be so designed and manufactured that in the foreseeable conditions of use for which they are intended the user can perform the roller sports normally and unhindered whilst enjoying protection at the specified limit.	Pass
	Innocuousness Protectors shall be safe to use and fit for their purpose. They shall be designed and manufactured to provide protection when used according to the manufacturer's instructions, without endangering the user or others.	Pass
5.3	There shall not be hard or sharp edges, seams, buckles or other items on the surfaces of the products that could harm the user or others during normal use. Examination shall be made according to 6.3.	Pass
	Construction materials and incorporated substances shall not harm those coming into contact with them.	Pass
	The manufacturer shall list in the information supplied with the protectors the main composition of the protectors and shall label any protector containing substances or preparations generally known to be hazardous. Information about determining the chemical innocuousness of protectors is given in annex A.	NT
5.4	Sizing Protectors shall be marked with a size. The size shall be designated by the range of body of the intended users, see 5.1.	NT



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5.5	RestraintProtectors shall not be easily displaced from the areas they are designed to protect during normal movements and when subjected to impacts. When subjected to impacts. When tested in accordance with 6.4 the central point of a protector shall not move more than the appropriate value in Table 1.Table 1: Maximum movement of protectors during testing.Kind of protectorsMaximum movement (mm)Kind of protectors204050						Pass See annex 1	
	Knee protectors	30		50		60		
	Wrist protectors	20		20		20		
	Palm protectors	20		20		20		
5.6	 Abrasion resistance 5.6 When tested in accordance with 6.5 the abrasion resistant layer of the protector shall not be perforated. 							Pass See annex 4
	Impact strength When tested in accordance with 6.6 the abrasion resistant layer of the knee, elbow, wrist or palm protector shall not break or split. Unit: J							
5.7	Kind of protostora		Level 1 R	ange of	ody ma	Level 2	Pass See annex 5	
	Kind of protectors	Δ	B			B	C	
	Knee protectors	25+2	45±2	65±2	30±2	50±2	70+2	
	Elbow protectors	20±2	40±2	60±2	20±2	40±2	60±2	
	Wrist and Palm protectors	30±2	40±2	50±2	30±2	40±2	50±2	



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	Impact parformana	o for kn	oo nalm	and alb	ow prot	otoro				
	A protector complies with this standard if the mean value of the peak force does exceed the value in Table 2 when tested in accordance with 6.7								ot	
	Protoctors lovel 1								ן ר	
			B	ange of h	ody may	20		Maximum		
	Kind of protector		<u> </u>		2	55 (peak		
		, r		r	, 	r		force		
		mm		' mm		' mm	.1	- kN		
	Knee protectors	25	3	35	8	50	12	6	-	
	Elbow protectors	12.5	1	17.5	4	25	6	4	-	
58	Palm protectors	100	3	100	4	100	5	3	1	Pass
0.0			I	Protector	rs level 2				1	See annex 6
			R	ange of b	ody mas	SS		Maximum		
	Kind of protector	ŀ	4	E	B)	peak		
		r	е	r	е	r	е			
		mm	J	mm	J	mm	J			
	Knee protectors	25	15	35	20	50	25	6	1	
	Elbow protectors	12.5	7.5	17.5	10	25	15	4		
	Palm protectors	100	6	100	8	100	10	3		
	r is the radius of cu	rvature o	of the any	vil						
	e is the impact ene	rgy]	
5.9	Specific requireme	nts for v	vrist pro	tectors						
	Adjustment									
5.9.1	The restraint system	shall be	continue	ously adj	ustable.					Pass
	Testing in accordance	ce with 6	.1							
	Stiffness									
	Wrist protectors sh	all be s	ufficientl	y stiff th	at wher	tested	accordi	ng to 6.8 th	е	
	extension of the artif	icial wris	t joint is	between	<u>A1</u> >35°	(A1) and	55°.			
	NOTE Extension of	tha wri	iet ioint	ie tha ha	ondina o	f tha ha	nd back	warde from	2	Pass
5.9.2	position in a straight	line with	the fore	arm.	shung o		nu bacr		a	See annex 3
	Unit: N-m									
		Ran	ge							
		A		B			C			
	IVIoment of force	2		3			3			



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		:					
593	Wrist protectors sl The reference poir size of subject, wh the subject shall be	nall have stiffening elements to for measurements shall be to has put on the protector. e determined according to E	s that exce e the plane The positi N 1082-1	ed the dim of the wris on of the p Unit:	ensions in table 3 It of an appropriate lane of the wrist o mm	f Pass	
0.010			Range of	body mass		See anne	ex 2
	Location of stiffn	ess elements	A	В	С		
	Length from the	wrist up to the arm	30	40	50		
	Length from the	wrist towards the finger tip	40	50	60		
	Width in the pal	mer region	15	20	25		
	Marking						
	Protectors shall be	e durably and clearly marked	d with the f	ollowing:		NT	
	a. name of trademark of the manufacturer or his authorized representative within the European Union;					, NT	
	b. designation of protector;	esignation of the protector, commercial name of that uniquely identifies the rotector;					
7	c. size of the pro	tector (see also 5.4)				NT	
	d. name of this standard and the performance level;					NT	
	e. clear indication whether the protector is for left or right fitting, if appropriate;						
	f. international c	NT					
	g. year of manufacture (date or code);						
	h. the following p manufacture.	ictogram, instructing the use	er to see th	ne informati	on supplied by the	, NT	



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	Information supplied by the manufacturer	
	Protectors shall be supplied with information and instructions for fitting and use to promote their safe and effective use. The information shall be precise and comprehensible and in the official languages of the country or region in which the equipment is to be placed on the market. At least the following information and instructions shall be given:	NT
	a. all the information specified in clause 7;	NT
	b. full address of the manufacturer or importer	NT
	c. instructions on how to select protectors of the correct performance level and explanation of the performance level of the protectors specified in this standard;	NT
	d. instructions on how to choose the correct size of protector and check its fit;	NT
8	e. details of the size of protectors and the body dimensions to which they relate;	NT
	f. instructions on how to adjust the protectors;	NT
	g. warning about any changes in environmental conditions, such as temperature, that would significantly reduce the performance of the protector;	NT
	h. warning that no protector can offer full protection against injuries;	NT
	i. warning about any contamination, alteration to the protector, or misuse that would dangerously reduce the performance of the protector;	NT
	j. list of the substances in the main components of the protector;	NT
	k. instructions for caring for and cleaning the protector;	NT
	I. instructions concerning the expected service life of the protector, inspections to carry out, repairs that may be made, and advice on when discard the protector because it might no longer perform adequately.	NT

Model: HP-S909

Range:<u>C</u>

Level: 1

Annex 1: Restraint test result

Test Specification: EN 14120:2003+A1:2007-6.4 Ambient temperature at time of test: <u>22.2</u> °C

Style	Sample No.	Movement for upwards (mm)	Movement for downwards (mm)	Maximum movement requirement (mm)	Result
Knee		32	48	Range A: 30mm	
	6	35	45	Range B: 50mm	Pass
		33	46	Range C: 60mm	
	6	7	10	Range A: 20mm	
Palm & Wrist		8	9	Range B: 20mm	Pass
		7	9	Range C: 20mm	



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Annex 2: Dimensions of stiffness elements test result

Test Specification: EN 14120:2003+A1:2007-5.9.3 Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Location of stiffness elements	Dimensions (mm)	Result
		Length from the wrist up to the arm	80.2	
Wrist protector	7	Length from the wrist towards the finger tip	63.6	Pass
		Width in the palmer region	32.1	

Annex 3: Stiffness test result

Test Specification: EN 14120:2003+A1:2007-5.9.3 Ambient temperature at time of test: <u>22.2</u> °C

Style	Sample No.	Degree of angle (°)	Result
Wrist protector	7	40°	Pass

Annex 4: Abrasion resistance test result

Test Specification: EN 14120:2003+A1:2007-6.5.2 Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Test result description	Result
Knee	6	Not Perforated	Deee
protector	7	Not Perforated	Pass
Palm & Wrist	6	Not Perforated	Deee
protector	7	Not Perforated	Pass

Annex 5: Impact strength test result

Test Specification: EN 14120:2003+A1:2007-6.6 Ambient temperature at time of test: <u>22.2</u> °C

Style	Sample No.	Test result description	Result
Kaaa	4	Not break or split	Deee
Knee	5	Not break or split	Pass
Palm and	4	Not break or split	Paga
wrist	5	Not break or split	r a55



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Annex 6: Impact performance test result

Test Specification: EN 14120:2003+A1:2007-6.7 Ambient temperature at time of test:22.2 °C

Style	Sample No.	Impact site	Peak force (kN)	Average (kN)	Requirement Max. peak force (kN)	Result
	4	1	1.63			
	I	2	1.93	2.21	6	
Knee	0	3	1.19			Daga
protector	2	4	1.89			F dSS
	3	5	2.13			
		6	4.48			
	1	1	2.13	2.11	3	Pass
		2	1.99			
Palm	2	3	2.37			
protector		4	2.13			
	2	5	1.89			
	3	6	2.13			

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

SGS Ref No.: CAN19-030887

Test Requested	Result
To determine the pH Value in the submitted sample(s).	See Results
Determination of Azodyes in the submitted sample(s).	See Results

Test Results :.

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN19-030887.001	Black thread
SN2	CAN19-030887.002	Dark gray thread
SN3	CAN19-030887.003	Cyan thread

Remarks :

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



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Test Report No.: GZHL1901004114CE Date

(4) "-" = Not Regulated

<u>pH value</u>

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

Test Item(s)	<u>001</u>	<u>002</u>	<u>003</u>
pH value	6.4	6.3	6.7

Azo Dyes

Test Method : With reference to ISO14362-1:2017, analysis was conducted with GC-MS/HPLC-DAD.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	MDL		<u>001</u>
				Method A	Method B
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND
5-nitro-o-toluidine /	99-55-8	mg/kg	5	ND	ND
2-Amino-4-nitrotoluene					
4-chloroaniline	106-47-8	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine	615-05-4	mg/kg	5	ND	ND
/ 2,4-Diaminoanisole					
4,4'-diaminodiphenylmethane	101-77-9	mg/kg	5	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-	838-88-0	mg/kg	5	ND	ND
Dimethyl-4,4'-diaminodiphenylm					
ethane					
p-cresidine	120-71-8	mg/kg	5	ND	ND
4,4'-methylene-bis-	101-14-4	mg/kg	5	ND	ND
(2-chloroaniline)		0.0			
4,4'-oxydianiline	101-80-4	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND
4-methyl-m-phenylenediamine /	95-80-7	mg/kg	5	ND	ND
		5 5			

2,4-Toluylendiamine



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2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND
2,4-Xylidine	95-68-1	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	mg/kg	5	ND	ND
<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	<u>MDL</u>		<u>002</u>
				Method A	Method B
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND
5-nitro-o-toluidine /	99-55-8	mg/kg	5	ND	ND
2-Amino-4-nitrotoluene		0.0			
4-chloroaniline	106-47-8	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine	615-05-4	mg/kg	5	ND	ND
/ 2,4-Diaminoanisole					
4,4'-diaminodiphenylmethane	101-77-9	mg/kg	5	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-	838-88-0	mg/kg	5	ND	ND
Dimethyl-4,4'-diaminodiphenylm					
ethane					
p-cresidine	120-71-8	mg/kg	5	ND	ND
4.4'-methylene-bis-	101-14-4	mg/kg	5	ND	ND
(2-chloroaniline)		5 5			
4,4'-oxydianiline	101-80-4	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND
4-methyl-m-phenylenediamine /	95-80-7	mg/kg	5	ND	ND
2,4-Toluylendiamine					
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND
2,4-Xylidine	95-68-1	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	mg/kg	5	ND	ND
Test Item(s)	CAS NO.	Unit	MDL	<u>003</u>	
				Method A	
4-Aminobiphenyl	92-67-1	mg/ka	5	ND	
Benzidine	92-87-5	ma/ka	5	ND	
4-chloro-o-toluidine	95-69-2	ma/ka	5	ND	
2-naphthylamine	91-59-8	mg/kg	5	ND	



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			_	
o-aminoazotoluene	97-56-3	mg/kg	5	ND
5-nitro-o-toluidine /	99-55-8	mg/kg	5	ND
2-Amino-4-nitrotoluene				
4-chloroaniline	106-47-8	mg/kg	5	ND
4-methoxy-m-phenylenediamine	615-05-4	mg/kg	5	ND
/ 2,4-Diaminoanisole				
4,4'-diaminodiphenylmethane	101-77-9	mg/kg	5	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5	ND
3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5	ND
4,4'-methylenedi-o-toluidine/3,3'-	838-88-0	mg/kg	5	ND
Dimethyl-4,4'-diaminodiphenylm		0.0		
ethane				
p-cresidine	120-71-8	mg/kg	5	ND
4.4'-methylene-bis-	101-14-4	ma/ka	5	ND
(2-chloroaniline)		3. 3		
4.4'-oxydianiline	101-80-4	ma/ka	5	ND
4.4'-thiodianiline	139-65-1	ma/ka	5	ND
o-toluidine	95-53-4	ma/ka	5	ND
4-methyl-m-phenylenediamine /	95-80-7	ma/ka	5	ND
2,4-Toluylendiamine			•	
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND
O-Anisidine	90-04-0	mg/kg	5	ND
2.4-Xylidine	95-68-1	mg/kg	5	ND
2.6-Xylidine	87-62-7	mg/kg	5	ND
· · · ·		0 0		

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) 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-toluylen-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.



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Sample photo:



Product Photo



Product Photo



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Product Photo

III. Colour Fastness to Perspiration.

SGS Ref. No.: SL91939220804101TX THREE SAMPLES OF THREAD MARKED AS (A)1#Black Thread (B)2#Gray Thread (C) 3#Green Thread

Test Result

Colour Fastness To Perspiration

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

<u>Acid</u>

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



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Test Report	No.: GZHL1901004114CE		Date: Apr 03, 2019		Page 14 of 16	
Alkaline						
-	Unit	(A)	(B)	(C)	Requirement	
Change In Shade	-	4-5	4-5	4-5	-	
Staining On Multi-fibre Stripe						
Acetate	-	4-5	4-5	4-5	-	
Cotton	-	4-5	4-5	4-5	-	
Nylon	-	4-5	4-5	4-5	-	
Polyester	-	4-5	4-5	4-5	-	
Acrylic	-	4-5	4-5	4-5	-	
Wool	-	4-5	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



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Sample Photo(s):





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End of Report



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