

Applicant:SNOW-HOW CR S.R.O. / DTSINC
16-17 ILSIN-RO, 39 BEON-GIL,
BUPYEONG-GU, INCHEON,
KOREA 21457Number:HKGH02479699Attn:YULRIA PARKDate:Jul 15, 2019

Submitted sample said to be :	
	SKI GOGGLES
Ref. No. :	921-621
Quantity :	Twelve pieces
	Korea
*********	***************************************

Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

Requirement	<u>Result</u>
(1) EN 174 : 2001	Pass
Personal Eye-Protection - Ski Goggles for Downhill Skiing excluding:	
- Clause 4.2 Material	
- Clause 5.5 Suitability for cleaning and care	
- Clause 7 Information supplied by the manufacturers	
CE marking ((EU) 2016/425 Article 17)	See note enclosed
***************************************	*****

For and on behalf of : Intertek Testing Services HK Ltd.

Cindy I.K. Chan Director

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TEST REPORT

Number: HKGH02479699

(1) Requirements for Ski Goggles

Test Standard : EN 174 : 2001 - Personal Eye-Protection - Ski Goggles for Downhill Skiing.

Number of samples tested: Nine (9) pairs.

Note:

(1) No parts of the ski goggle which are in contact with the wearer shall be made of materials that are known to cause irritation, allergic or toxic reaction in a normal state of health amongst a significant proportion of users.

(2) CE marking is not specified in EN 174 : 2001 but per Regulation (EU) 2016/425, Article 16 & Article 17, the CE marking shall be affixed visibly, legibly and indelibly to the ski goggle frame. The format of this CE marking was given in Annex II of Regulation (EC) No 765/2008.

However, CE marking was given on the ski goggles but the presentation was found different format from the requirement.

Clause	Requirement	Result		
4.1	General requirements	Р		
4.2	Materials	See note (1)		
4.3	Sit and fit	Р		
4.4	Ventilation	Р		
5.1	Optical requirements			
5.1.1	Field of vision	Р		
5.1.2	Lens requirements (see test data)	Р		
	Optical power	Р		
	Transmittance	Р		
	Variations in luminous transmittance	Р		
	Maximum reduced luminance coefficient	Р		
	Quality of material and surface	Р		
	Resistance to ultraviolet radiation	Р		
5.2	Mechanical strength	Р		
5.3	Protection against water and snow	Р		
5.4	Resistance to ignition	Р		
5.5	Suitability for cleaning and care #1			
5.6	Optional specifications	L		
5.6.2	Resistance to fogging of oculars	P		
7	Information supplied by the manufacturers	#2 (See note (2))		

Abbreviation: P = Pass; NA = Not Applicable.



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Test data:

5.1.2 Lens requirements - Optical power :

Optical power	Sample	Left ocular		Right ocular	Optical Class
	1	-0.	.04	-0.02	
Spherical power (m ⁻¹)	2	-0.	.06	-0.04	
()	3	-0.06		-0.06	
	1	0.01		0.04	
Astigmatic power (m ⁻¹)	2	0		0.02	Class 1
()	3	0.	01	0.01	
		Horizontal	Vertical	Base	
Prismatic power	1	0.25	0.025	Out	
difference (cm/m)	2	0.025	0.025	Out	
	3	0.30	0.025	Out	

Requirement:

Optical	Spherical	Astigmatic	Prismat	tic power differend	ce (cm/m)
Class	Power	Power	Horizor	ntal limit	Vertical limit
01033	(m⁻¹)	(m⁻¹)	Base out	Base in	Vertical minit
1	±0.09	0.09	0.75	0.25	0.25
2	±0.12	0.12	1.00	0.25	0.25

Transmittance :

Sample	Left ocular (%)	Right ocular (%)	Filter category
1	14.44	14.14	S3
2	13.97	14.27	S3
3	13.91	13.66	S3
	Sample 1 2 3	1 14.44 2 13.97	1 14.44 14.14 2 13.97 14.27





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For ultraviolet spectral range :

		Maximum transmittance (%)				
Range	Sample	Left ocular	Right ocular	Limit		
		Leit Oculai		Left	Right	
	1	<0.10	<0.10	≤ 0.03 Tv	≤ 0.03 Tv	
	•	-0.10	-0.10	(0.43)	(0.42)	
280 - 315nm (UVB)	2	<0.10	<0.10	≤ 0.03 Tv	≤ 0.03 Tv	
	-		••	(0.42)	(0.43)	
	3	<0.10	<0.10	≤ 0.03 Tv	≤ 0.03 Tv	
	5	NO. 10	-0.10	(0.42)	(0.41)	
	1	0.27	0.23	≤ 0.15 Tv	≤ 0.15 Tv	
	I	0.27		(2.16)	(2.12)	
315 - 350nm (UVA)	2	0.17	0.19	≤ 0.15 Tv	≤ 0.15 Tv	
515 - 550mm (OVA)	Z	0.17		(2.10)	(2.14)	
	3	0.10	0.23	≤ 0.15 Tv	≤ 0.15 Tv	
	5	0.10		(2.09)	(2.05)	
	1	0.13	0.14	≤ 0.15 Tv	≤ 0.15 Tv	
215 290pm (T)	I	0.15	0.14	(2.16)	(2.12)	
	2	<0.10	<0.10	≤ 0.15 Tv	≤ 0.15 Tv	
315 - 380nm (T _{suva})	Z	~ 0.10	~0.10	(2.10)	(2.14)	
	3	<0.10	<0.10	≤ 0.15 Tv	≤ 0.15 Tv	
	3	~ 0.10	~0.10	(2.09)	(2.05)	

Requirement:

	Ultraviolet spectral range			Visible spectral range	
Filter category	spectral tra	m value of ansmittance (λ)	Maximum value of solar UVA transmittance T _{SUVA}	Range of luminous	transmittance (Tv)
	280 nm to 315 nm	Over 315 nm to 350 nm	315 nm to 380 nm	From over %	To %
S0		0.3 Tv		80.0	100
S1			0.3 Tv 0.3 Tv	43.0	80.0
S2	0.03 Tv			18.0	43.0
S3		0.15 Tv	0.15 Tv	8.0	18.0
S4		0.1510	0.1010	3.0	8.0



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Variations in luminous transmittance

Sample		n filter after correction higher value)	% difference between filters (Relative to lighter filter)
	Left ocular	Right ocular	
1	3.27 5.03		2.07
2	6.33 3.49		2.13
3	8.28 7.04		1.81
Requirement	<u><</u> 10%		<u><</u> 20%

#Note: The above correction was based on clause 7.3 of EN 167:2001 - method to correct transmittance for variations in thickness of the ocular, with the input of refractive index provided by supplier/ manufacturer.

Maximum reduced luminance coefficient

Sample	Maximum reduced luminance coefficient (cd/m ²)/lx		Class	Limit
	Left ocular	Right ocular		
1	0.69	0.66	1	Diffusion of light (maximum):
2	0.59	0.70	1	- Class 1: 1.0(cd/m ²)/lx - Class 2: 2.0(cd/m ²)/lx
3	0.61	0.75	1	- Class 2: 2.0(cd/m ⁻)/lx

Resistance to ultraviolet radiation:

Sample	Relative change transmitta		Limit
-	Left ocular	Right ocular	
1	-1.07	-1.66	<u>+</u> 5% for filters of category S0 +10% for filters of category S1
2	-0.22	+0.24	$\pm 20\%$ for filters of all other categories

	Sample	Maximum reduced luminance coefficient (cd/m ²)/lx Left ocular Right ocular		Class	Limit
	1	0.73	0.66	1	Diffusion of light (maximum):
		0.73	0.00	I	
	2	0.53	0.68	1	- Class 1: 1.0 (cd/m ²)/lx - Class 2: 2.0 (cd/m ²)/lx
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Remarks:

#1 - No assessment was made on the suitability for cleaning and cares as such information was not provided by the applicant.

- #2 The applicant's attention is drawn to provide the following minimum information in the national language(s) of the country of sale, in the form of a marking on the ski goggles, an affixed label or packaging, or any combination thereof:
 - a) Number and date of this standard;
 - b) Filter categories;
 - c) Antifogging (if applicable);
 - d) Name and address of the manufacturer or supplier;

 - e) Instructions for storage, use and maintenance;f) Specific instructions for cleaning and disinfection;
 - g) Details of the field of use, protection capabilities and performance characteristics;
 - h) Details of suitable accessories and spare parts and instructions for fitting;
 - i) "Do not use ski goggles in road and when driving"; the following information shall be available from the manufacturer or supplier:
 - a) Optical class;
 - b) A transmittance curve of filter lens.

Date sample received : Jul 02, 2019 Testing period : Jul 02, 2019 to Jul 11, 2019





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End of report

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