

# C&S HOLMES, INC. DBA TETON SPORTS

## TEST REPORT

### SCOPE OF WORK

Performance Testing of Face Masks to  
*ASTM F2100 Standard Specification for Performance of  
Materials Used in Medical Face Masks, 2019 Edition*

### REPORT NUMBER

104386103CRT-001

### ISSUE DATE

August 4, 2020

### PAGES

10

### DOCUMENT CONTROL NUMBER

GFT-OP-10i (28-Nov-2018)

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**TEST REPORT**

Issued August 4, 2020

Intertek Report No. 104386103CRT-001  
Intertek Project No. G104386103

**CLIENT**

C&S Holmes, Inc. DBA Teton Sports  
4882 West Wiley Post Way  
Salt Lake City, UT 84116  
USA

**TEST STANDARD**

ASTM F2100 *Standard Specification for Performance of Materials Used in Medical Face Masks*, 2019 Edition

**AUTHORIZATION**

Quote Number: Qu-01091355

**SAMPLE IDENTIFIED BY THE CLIENT AS**

Product Type: Face Masks  
Model Numbers: PPE-KN95-1  
PPE-3PLY-95-1

**SAMPLE INFORMATION**

Date(s) Samples Received: July 10, 2020  
Condition of Samples: Production Run  
Date(s) of Testing: July 23, 2020 through July 31, 2020

**TEST INFORMATION**

ASTM F2101 <i>Bacterial Filtration Efficiency</i>	Not tested under this project
EN 14683:2019 Annex C <i>Differential Pressure</i>	Not tested under this project
ASTM F2299 <i>Sub-Micron Particulate Filtration</i>	Not tested under this project
ASTM F1862 <i>Resistance to Penetration by Synthetic Blood</i>	Test data attached
16 CFR 1610 <i>Flammability</i>	Test data attached

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## TEST REPORT

Issued August 4, 2020

Intertek Report No. 104386103CRT-001

Intertek Project No. G104386103

### SECTION 1


#### CONCLUSION


This test report represents the testing covered by proposal number Qu-01091355.

The observations and test results in this report are relevant only to the sample tested. Intertek makes no representations or warranties, express or implied, regarding units that were not tested including, but not limited to, units that may be part of the same lot.

If there are any questions regarding the results contained in this report, or any other services offered by Intertek, please do not hesitate to contact the undersigned.

Please note this Test Report does not represent authorization for the use of any Intertek certification marks.

**Project Owner:** Benjamin Hanna  
**Title:** Project Engineer  
**Signature:**   
**Date:** August 4, 2020

**Project Reviewer:** Jason Allen  
**Title:** Technical Advisor  
**Signature:**   
**Date:** August 4, 2020

#### REPORT REVISIONS

Date / Project #	Project Handler/ Reviewer	Description of Change
		None

TEST REPORT

SECTION 2

ASTM F2100-19 TEST DATA

RESISTANCE TO PENETRATION BY SYNTHETIC BLOOD, ASTM F1862-17

Specimens conditioned for 4-hours at 21-22°C and 83-86%RH

Specimens tested at 21-23°C and 55-62% RH

PPE-KN95-1				
Specimen	Pressure	Test Volume (mL)	Visible Penetration of Blood or Wetness	Pass/Fail
1	160 mmHg	2	None	Pass
2	160 mmHg	2	None	Pass
3	160 mmHg	2	None	Pass
4	160 mmHg	2	None	Pass
5	160 mmHg	2	None	Pass
6	160 mmHg	2	None	Pass
7	160 mmHg	2	None	Pass
8	160 mmHg	2	None	Pass
9	160 mmHg	2	None	Pass
10	160 mmHg	2	None	Pass
11	160 mmHg	2	None	Pass
12	160 mmHg	2	None	Pass
13	160 mmHg	2	None	Pass
14	160 mmHg	2	None	Pass
15	160 mmHg	2	Visible Blood	Fail
16	160 mmHg	2	None	Pass
17	160 mmHg	2	None	Pass
18	160 mmHg	2	None	Pass
19	160 mmHg	2	None	Pass
20	160 mmHg	2	None	Pass
21	160 mmHg	2	None	Pass
22	160 mmHg	2	None	Pass
23	160 mmHg	2	None	Pass
24	160 mmHg	2	None	Pass
25	160 mmHg	2	None	Pass
26	160 mmHg	2	None	Pass
27	160 mmHg	2	None	Pass
28	160 mmHg	2	None	Pass
29	160 mmHg	2	None	Pass
30	160 mmHg	2	None	Pass
31	160 mmHg	2	None	Pass
32	160 mmHg	2	None	Pass

TEST REPORT

PPE-3PLY-95-1				
Specimen	Pressure	Test Volume (mL)	Visible Penetration of Blood or Wetness	Pass/Fail
1	160 mmHg	2	None	Pass
2	160 mmHg	2	None	Pass
3	160 mmHg	2	None	Pass
4	160 mmHg	2	None	Pass
5	160 mmHg	2	None	Pass
6	160 mmHg	2	None	Pass
7	160 mmHg	2	None	Pass
8	160 mmHg	2	None	Pass
9	160 mmHg	2	None	Pass
10	160 mmHg	2	None	Pass
11	160 mmHg	2	None	Pass
12	160 mmHg	2	None	Pass
13	160 mmHg	2	None	Pass
14	160 mmHg	2	None	Pass
15	160 mmHg	2	None	Pass
16	160 mmHg	2	None	Pass
17	160 mmHg	2	Visible Blood	Fail
18	160 mmHg	2	None	Pass
19	160 mmHg	2	None	Pass
20	160 mmHg	2	None	Pass
21	160 mmHg	2	None	Pass
22	160 mmHg	2	None	Pass
23	160 mmHg	2	None	Pass
24	160 mmHg	2	None	Pass
25	160 mmHg	2	None	Pass
26	160 mmHg	2	None	Pass
27	160 mmHg	2	None	Pass
28	160 mmHg	2	None	Pass
29	160 mmHg	2	None	Pass
30	160 mmHg	2	None	Pass
31	160 mmHg	2	None	Pass
32	160 mmHg	2	None	Pass

TEST REPORT

TEST EQUIPMENT INFORMATION

Description	Control Number	Calibration Date	Calibration Due
Conditioning Chamber	308-H252	2/26/2020	2/26/2021
Automated Dispenser	308-H386	VBU	VBU
Ambient Conditions Monitor	308-G183	4/21/2020	4/21/2021
Timer for Dispenser Verification	308-T1515	9/5/2019	9/5/2019

Date of Testing	7/23/2020
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## TEST REPORT

### SECTION 3

#### 16 CFR 1610 TEST DATA



Test Report No. : USA00035294  
Report Date : July 31, 2020

#### TEST REPORT

**Client:** Intertek  
3933 US Route 11,  
Cortland, NY 13045

**Attention:** Benjamin Hanna  
**E-Mail:** benjamin.hanna@intertek.com

#### Sample Description as Declared :

Sample Description : Face Mask  
Color : White, Blue  
Style # : G104386103; PPE-KN95-1  
G104386103; PPE-3PLY-95-1  
Fabric/Garment Weight : Not Provided  
Fiber Content : Not Provided  
No. of Samples: 30  
End Use : Face Mask  
Care Instructions : Not Provided  
Sample Received Date : July 27, 2020  
Final Confirmation Received Date: July 27, 2020  
Report Completion Date : July 31, 2020



For and on behalf of  
Intertek Products Group North America:

Jessica Feiss  
Account  
Manager

Digitally signed by Jessica  
Feiss Account Manager  
Date: 2020.07.31 13:45:28  
-05'00'

#### Intertek North America

545 E Algonquin Road, Suite F  
Arlington Heights, Illinois 60005  
Telephone: 847-871-1020 Fax: 847-439-6156



TEST REPORT



Test Report No. : USA00035294

Report Date : July 31, 2020

**TEST RESULTS:**

**16 CFR 1610 (2008) - Flammability of Clothing Textiles**

Sample Description: Face Mask, G104386103, PPE-KN95-1, White Color

Surface type: Plain – Single Layer		
Tested side: Face		
Original State		
<b>Preliminary Test</b>		
Length	Burn Characteristics	Time (s)
Up	-	-
Down	-	-
Width	Burn Characteristics	Time (s)
Up	DNI	-
Down	DNI	-

Surface type: Plain - Composite		
Tested side: Face		
Original State		
<b>Preliminary Test</b>		
Length	Burn Characteristics	Time (s)
Up	-	-
Down	-	-
Width	Burn Characteristics	Time (s)
Up	DNI	-
Down	DNI	-

<b>Final Test</b>		
Original State		
Test Direction: Width Up – Single Layer		
Test Side: Face		
Specimen	Burn Characteristics	Time (s)
1	DNI	-
2	DNI	-
3	DNI	-
4	DNI	-
5	DNI	-
Average:	-	-

**Classification:**      X    Class 1, Normal Flammability

Sample is a one-time use item. Flammability testing performed only in original state.

Explanation of Flammability Results:

For plain surface fabric

DNI	Did not ignite
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TEST REPORT



Test Report No. : USA00035294  
Report Date : July 31, 2020

**16 CFR 1610 (2008) - Flammability of Clothing Textiles**

Sample Description: Face Mask, G104386103, PPE-3PLY-95-1, Blue Color

Surface type: Plain – Single Layer		
Tested side: Face		
Original State		
<b>Preliminary Test</b>		
Length	Burn Characteristics	Time (s)
Up	-	-
Down	-	-
Width	Burn Characteristics	Time (s)
Up	DNI	-
Down	DNI	-

Surface type: Plain - Composite		
Tested side: Face		
Original State		
<b>Preliminary Test</b>		
Length	Burn Characteristics	Time (s)
Up	-	-
Down	-	-
Width	Burn Characteristics	Time (s)
Up	DNI	-
Down	DNI	-

<b>Final Test</b>		
Original State		
Test Direction: Width Up – Single Layer		
Test Side: Face		
Specimen	Burn Characteristics	Time (s)
1	DNI	-
2	DNI	-
3	DNI	-
4	DNI	-
5	DNI	-
Average:	-	-

**Classification:** X Class 1, Normal Flammability

Sample is a one-time use item. Flammability testing performed only in original state.

Explanation of Flammability Results:

For plain surface fabric

DNI	Did not ignite
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## TEST REPORT



Test Report No. : USA00035294  
Report Date : July 31, 2020

**Remark: The samples referred to in this report were not tested in accordance with Intertek's full Mask Protocol. Testing was conducted on specific items only, at our client's request.**

*The test results stated in this report relate only to the item(s) tested. This test report may not be reproduced except in full, without written approval of Intertek.*

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*If you need assistance in interpreting these results or if you have any questions,  
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