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检测
TESTING
CNAS L0220

TEST REPORT

Number: GZHT91212236

Applicant: CORTINA N.V.
MEERSBLOEM-MELDEN 42,
9700 OUDENAARDE,BELGIUM
Attn: REBECCA/JENNY

Date: Sep 08, 2023

Sample Description:

Twelve (12) pairs of submitted samples said to be 13 GAUGE HPPE KNITTED GLOVES, PALM COATED NITRILE, FOAM SURFACE+ANTI-IMPACT TPR.

Standard	:	ANSI/ISEA 105-2016 ANSI/ISEA 138-2019
Style No./Name	:	PRO IMPACT
Colors	:	Black/Grey
Size	:	10, 12
Size Range	:	7-12
Buyer's Name	:	SAFETY JOGGER
Manufacturer	:	CORTINA
Palm	:	PALM COATED NITRILE FOAM SURFACE
Back	:	Grey Knitted Fabric with ANTI-IMPACT TPR
Cuff	:	Knitted Fabric with Elastic
Cuff Binding	:	Polyester
Country Of Origin	:	CHINA
Goods Exported To	:	E.U. & U.S.
Date Received/Date Test Started	:	Aug 04, 2023
Date Final Information Confirmed/ Date Payment Received:		Aug 07, 2023/Sep 08, 2023

Test Result Please Refer To Attached Page(S).

Should you have any query on this report, you may contact at gzfootwear@intertek.com

Authorized By:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch

Guiliang Dong
Senior Lab Manager

CL / lydiayang

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Tests Conducted (As Requested By The Applicant)

1 Cut Resistance (ANSI/ISEA 105-2016, 5.1.1 & ASTM F2992-15)

Test Condition:
Test Area: Glove Palm (No Pretreatment)
Blade Sharpness Correction Factor: 0.89
Coefficient Of Variation: 4.1%

Sample	Specimen	Rating Force (*)
-	1	1200 grams
	2	1195 grams
	3	1135 grams
	Average	1177 grams
	Classification Level (#)	A3

Detailed Results Of Specimen 1

	Load (gf)	Cut Through Distance (mm)	Normalized Cut Through Distance (mm)
1	1400	14.9	13.2
2	1400	17.7	15.7
3	1400	5.5	4.9
4	1400	12.4	11.0
5	1400	6.4	5.7
6	1200	29.2	26.0
7	1200	25.9	23.0
8	1200	23.6	21.0
9	1200	30.1	26.8
10	1200	21.9	19.5
11	1000	43.3	38.5
12	1000	41.0	36.4
13	1000	39.6	35.2
14	1000	38.1	33.9
15	1000	48.6	43.2

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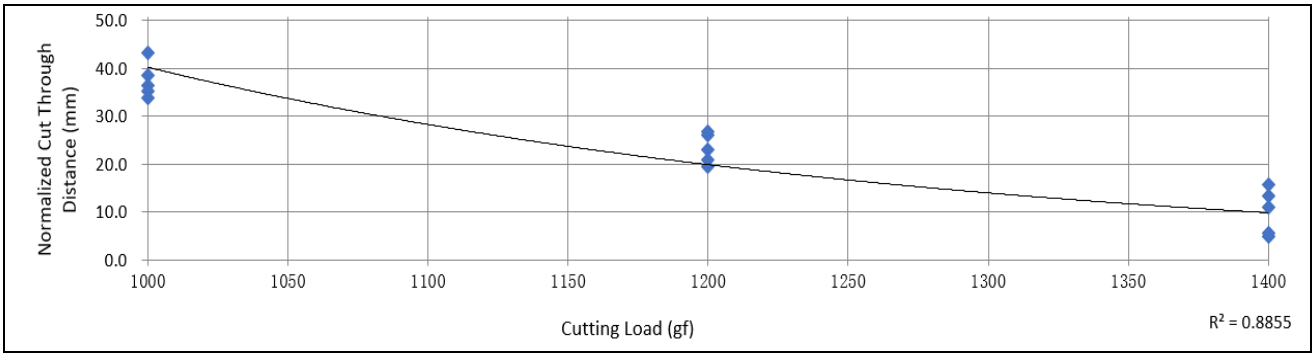
Cut Resistance (Cont)

Graph Of Load vs. Cut Through Distance



Detailed Results Of Specimen 2

	Load (gf)	Cut Through Distance (mm)	Normalized Cut Through Distance (mm)
1	1300	8.4	7.5
2	1300	10.1	9.0
3	1300	12.8	11.4
4	1300	5.5	4.9
5	1300	9.2	8.2
6	1200	25.1	22.3
7	1200	26.3	23.4
8	1200	21.6	19.2
9	1200	27.4	24.4
10	1200	30.4	27.0
11	1100	46.3	41.2
12	1100	47.3	42.0
13	1100	40.3	35.8
14	1100	42.7	38.0
15	1100	45.1	40.1

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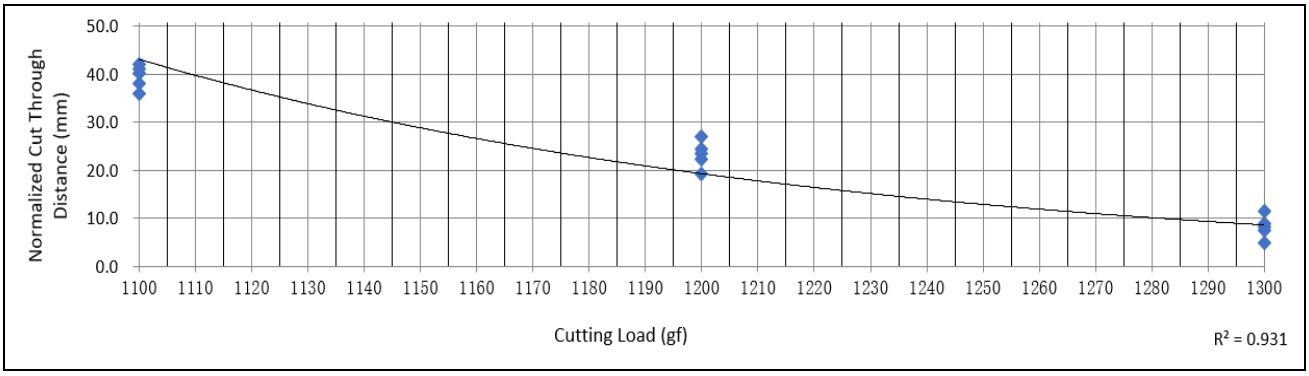
Cut Resistance (Cont)

Graph Of Load vs. Cut Through Distance



Detailed Results Of Specimen 3

	Load (gf)	Cut Through Distance (mm)	Normalized Cut Through Distance (mm)
1	1200	14.2	12.6
2	1200	19.7	17.5
3	1200	14.5	12.9
4	1200	17.5	15.6
5	1200	17.4	15.5
6	1100	32.9	29.2
7	1100	23.2	20.6
8	1100	22.1	19.6
9	1100	27.4	24.4
10	1100	28.5	25.3
11	1000	46.6	41.4
12	1000	45.2	40.2
13	1000	40.7	36.2
14	1000	49.9	44.4
15	1000	41.5	36.9

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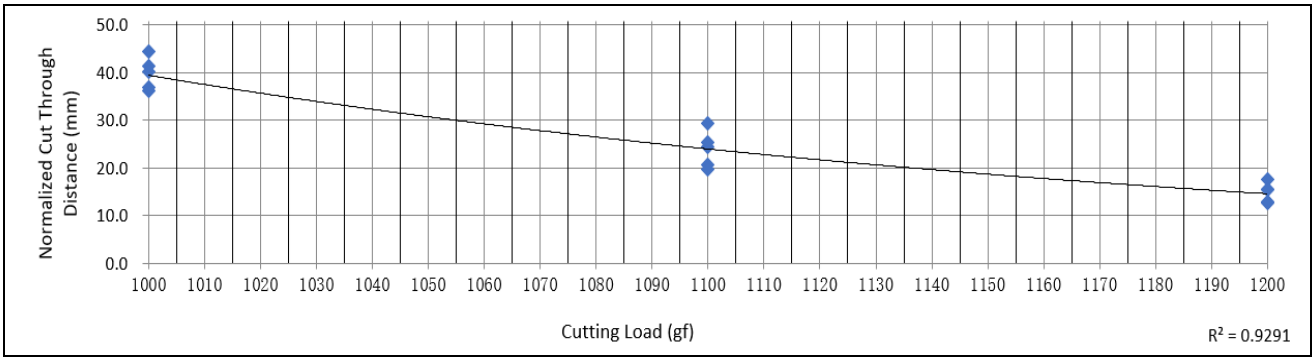
Cut Resistance (Cont)

Graph Of Load vs. Cut Through Distance



Remark: * = In Cut Resistance Testing, The Load Required To Cause A Cutting Edge To Produce A Cut Through When It Traverses The Reference Distance (20 mm In This Test) Across The Material Being Tested.

= Classification Level For Cut Resistance (ANSI-ISEA 105-2016) Is Based On The Average Force Of A Minimum Of 3 Specimens.

Classification For Cut Resistance (ANSI/ISEA 105-2016)	
Level	Weight (Gram) Needed To Cut Through Material With 20 mm Of Blade Travel
A1	≥ 200
A2	≥ 500
A3	≥ 1000
A4	≥ 1500
A5	≥ 2200
A6	≥ 3000
A7	≥ 4000
A8	≥ 5000
A9	≥ 6000

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2 Abrasion Resistance (ANSI/ISEA 105-2016, 5.1.4, Abrasion Wheels: H-18, Load: 500 Gram Load For Level 0 To 3, 1000 Gram Load For Level 4 To 6)

Sample	Test Method		ASTM D3389-10
-	Specimen	Test Load (gram)	Abrasion Cycles To Fail
	Specimen 1	500	>1100
	Specimen 2	500	>1100
	Specimen 3	500	>1100
	Specimen 4	500	>1100
	Specimen 5	500	>1100
	Average		>1100
	Specimen 6	1000	>20000
	Specimen 7	1000	>20000
	Specimen 8	1000	>20000
	Specimen 9	1000	>20000
	Specimen 10	1000	>20000
	Average		>20000
	Classification Level (#)		6

Remark: # = The Average Of 5 Specimens Is Used To Report The Classification Level.

Classification For Abrasion Resistance (ANSI/ISEA 105-2016)	
Level (Test At 500 g Load)	Abrasion Cycles To Fail
0	< 100
1	≥ 100
2	≥ 500
3	≥ 1000
Level (Test At 1000 g Load)	
4	≥ 3000
5	≥ 10000
6	≥ 20000

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3 Puncture Resistance (ANSI/ISEA 105-2016, 5.1.2 & EN 388:2016+A1:2018, 6.4)

Sample	Specimen	Puncture Force
-	1	163 N
	2	151 N
	3	149 N
	4	170 N
	5	165 N
	6	173 N
	7	142 N
	8	165 N
	9	172 N
	10	158 N
	11	148 N
	12	149 N
	Average Of 12 Specimens	159 N
	Classification Level (*)	5

Remark: * = The Classification Is Determined By The Average Of 12 Specimens.

Classification For Puncture Resistance (ANSI-ISEA 105-2016)	
Level	Puncture (Newton)
0	< 10
1	≥ 10
2	≥ 20
3	≥ 60
4	≥ 100
5	≥ 150

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4 Impact Attenuation Test (Impact- Resistant Gloves) (ANSI/ISEA 138-2019)

Test Condition:
Glove Size: 10
Mass Of Drop Striker: 2.5 kg
Impact Energy: (5±0.2) J

Sample	Results (kN)					Requirement	Level
-	Knuckle Impact Protection	Left Glove	Impact 1	Index Finger	7.1	*(#)	1
			Impact 2	Middle Finger	7.2	*(#)	
			Impact 3	Ring Finger	7.2	*(#)	
			Impact 4	Small Finger	7.0	*(#)	
		Right Glove	Impact 5	Index Finger	6.9	*(#)	
			Impact 6	Middle Finger	7.0	*(#)	
			Impact 7	Ring Finger	6.5	*(#)	
			Impact 8	Small Finger	7.2	*(#)	
		Max Force			7.2	*(#)	
		Average Force			7.0	*(#)	
	Finger And Thumb Impact Protection	Left Glove	Impact 1	Thumb Finger	5.8	*(#)	2
			Impact 2	Index Finger	5.5	*(#)	
			Impact 3	Middle Finger	5.2	*(#)	
			Impact 4	Ring Finger	5.8	*(#)	
			Impact 5	Small Finger	4.8	*(#)	
		Right Glove	Impact 6	Thumb Finger	5.4	*(#)	
			Impact 7	Index Finger	5.4	*(#)	
			Impact 8	Middle Finger	5.1	*(#)	
			Impact 9	Ring Finger	5.7	*(#)	
			Impact 10	Small Finger	5.1	*(#)	
		Max Force			5.8	*(#)	
		Average Force			5.4	*(#)	
	Overall Performance Level (#1)				1		

Remark: # = No Part Of The Glove Shall Crack Or Shatter Producing Sharp Edges When Impacted.
#1 = The Overall Performance Level Of The Glove Is Determined By The Lowest Performance Level Recorded.

* = Classification For Impact Resistance		
Performance Level	Mean (kN)	All Impacts (kN)
1	≤ 9	≤ 11.3
2	≤ 6.5	≤ 8.1
3	≤ 4	≤ 5

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End Of Report

Remark:
1. As Requested by the Applicant, For Details Refer to Attached Page (s).
2. All the tested item are tested under the standard condition.
3. The report is valid with commission test only for the test samples in the case of delivering samples by clients.

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