



Handi As
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Your notice of
18-09-2019

Your reference

Date
17-10-2019

Analysis Report 19.05200.01

Required tests :

EN 388-6.4 (2016)

EN 388-6.1 (2016)

EN 388-6.5 (2016)

EN 388-6.2 (2016)

EN 511 5.5 (2006)

Determination of tearing resistance - gloves

Determination of the abrasion resistance on Martindale with emery paper

Determination of the puncture resistance

Determination of the blade cut resistance

Measurement of the resistance to convective cold

Identification number	Information given by the client	Date of receipt
T1919891	protective glove style 142x x=0 size 8, x=1 size 9, x=2 size 10, x=3 size 11	18-09-2019

Hilde Rubben
Order responsible

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In assessing compliance with the specifications, we did not take into account the uncertainty on the test results.



Reference: T1919891 - protective glove style 142x x=0 size 8, x=1 size 9, x=2 size 10, x=3 size 11

Determination of tearing resistance - gloves

Date of ending the test	17-10-2019
Standard used	EN 388-6.4 (2016)
Product standard	EN 388 (2016)
Deviation from the standard	-
Conditioning	23°C, relative humidity 50%
Apparatus	Instron, type CRE, class 0,5
Cell	100 N
Rate	100 mm/min
Number of test specimens	2 (Length direction) 2 (Width direction)
Calculation	Automatic - the highest peak
Outer layer	

	Tear resistance (N)
Length	31.5
Length	43.0*
Width	51.5*
Width	56.3*
Minimum	31.5 N

Inner layer

	Tear resistance (N)
Length	21.8
Length	17.3
Width	27.0*
Width	31.6*
Minimum	17.3 N

Remark * = tear transfer

Classification level				
Level 1	Level 2	Level 3	Level 4	Level 5
10 N	25 N	50 N	75 N	-

Reference: T1919891 - protective glove style 142x x=0 size 8, x=1 size 9, x=2 size 10, x=3 size 11

Determination of the abrasion resistance on Martindale with emery paper

Date of ending the test 17-10-2019
Standard used EN 388-6.1 (2016)
Product standard EN 388 (2016)

Deviation from the standard -
Conditioning 23°C, relative humidity 50%
Apparatus Martindale Wear and Abrasion Tester
Used pressure 9 kPa
Abradant Klingspor PL31B Gritt 180
Number of test specimens 4
Specimens tested by 4

Outer layer

	Number of cycles to breakdown the specimen
#1	500 >< 2000
#2	500 >< 2000
#3	500 >< 2000
#4	500 >< 2000
Minimum	500 >< 2000

Inner layer

	Number of cycles to breakdown the specimen
#1	0 >< 100
#2	0 >< 100
#3	0 >< 100
#4	0 >< 100
Minimum	0 >< 100

Classification level				
Level 1	Level 2	Level 3	Level 4	Level 5
100 cycli	500 cycli	2000 cycli	8000 cycli	-



Reference: T1919891 - protective glove style 142x x=0 size 8, x=1 size 9, x=2 size 10, x=3 size 11

Determination of the puncture resistance

Date of ending the test	17-10-2019
Standard used	EN 388-6.5 (2016)
Product standard	EN 388 (2016)
Deviation from the standard	-
Conditioning	23°C, relative humidity 50%
Apparatus	Instron, type CRE, class 0,5
Cell	1 kN
Perforation speed	100 mm/min
Used spike	Test spike of steel with rounded top
Maximum displacement	50 mm
Number of test specimens	4

On all layers together

Specimen	Force (N)
#1	69.9
#2	68.0
#3	68.1
#4	62.7
Minimum	62.7 N

Classification level				
Level 1	Level 2	Level 3	Level 4	Level 5
20 N	60 N	100 N	150 N	-



Reference: T1919891 - protective glove style 142x x=0 size 8, x=1 size 9, x=2 size 10, x=3 size 11

Determination of the blade cut resistance

Date of ending the test 16-10-2019
 Standard used EN 388-6.2 (2016)
 Product standard EN 388 (2016)
 Deviation from the standard -
 Conditioning 23°C, relative humidity 50%
 Apparatus Coupetest
 Number of test specimens 2

On all layers together

Direction /	Ref. fabric	Test specimen 1	Ref. fabric	Index
#1	1.0	8.8	1.0	9.8
#2	1.0	9.8	1.0	10.8
#3	1.0	7.8	1.0	8.8
#4	1.0	7.8	1.0	8.8
#5	1.0	5.0	1.0	6.0
Average	1.0	7.8	1.0	8.8

Direction \	Ref. fabric	Test specimen 2	Ref. fabric	Index
#1	1.0	5.1	1.0	6.1
#2	1.0	5.1	1.0	6.1
#3	1.0	7.0	1.0	8.0
#4	1.0	7.0	1.0	8.0
#5	1.0	5.7	1.0	6.7
Average	1.0	6.0	1.0	7.0

Classification level				
Level 1	Level 2	Level 3	Level 4	Level 5
1.2	2.5	5.0	10.0	20.0



Reference: T1919891 - protective glove style 142x x=0 size 8, x=1 size 9, x=2 size 10, x=3 size 11

Measurement of the resistance to convective cold

Date of ending the test 24-09-2019
 Standard used EN 511 5.5 (2006)

Deviation from the standard -
 Temperature of hand 34 °C
 Ambient temperature 14 °C
 Air velocity 4 m/s
 Relative humidity 50 %
 Number of test specimens 2
 Number of individual measurements per test specimen 1

Test specimens	Thermal insulation (m ² .K/W)
#A	0.088
#B	0.087
Average	0.088 m ² .K/W