

TECHNICAL REPORT

	SATRA reference:	CHT2026297	
		2527	
	Report ID/Issue number:	53278/1	
	Your reference:		
	Date samples received:	01/07/2025	
	Date(s) work carried out:	01/07/2025 to 18/07/2025	
	Date of report:		

Testing Requirements

EN 388: 2016+A1: 2018 clause 6.1/6.2/6.4/6.5 – Abrasion, Blade cut, Tear, Puncture resistance tests on gloves, described as ANTI VIBRATION green latex foam dots on the palm, 10g green cotton shell with green latex palm coated smooth finish, referenced as HW3052.

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Report Signed by:

Report Signatory

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WORK REQUESTED

Gloves, described as ANTI VIBRATION green latex foam dots on the palm, 10g green cotton shell with green latex palm coated smooth finish, referenced as HW3052 for testing in accordance with EN 388:2016+A1:2018.

SAMPLE SUBMITTED



HW3052

TESTING REQUESTED

EN 388:2016+A1:2018 Clause 6.1 – Abrasion resistance
EN 388:2016+A1:2018 Clause 6.2 – Blade cut resistance
EN 388:2016+A1:2018 Clause 6.4 – Tear Resistance
EN 388:2016+A1:2018 Clause 6.5 – Puncture Resistance

CONCLUSION

The samples described as ANTI VIBRATION green latex foam dots on the palm, 10g green cotton shell with green latex palm coated smooth finish, referenced as HW3052 were found to achieve the following results:

EN 388:2016+A1:2018 Clause 6.1 – Level 3
EN 388:2016+A1:2018 Clause 6.2 – Level 1
EN 388:2016+A1:2018 Clause 6.4 – Level 4
EN 388:2016+A1:2018 Clause 6.5 – Level 1

Detailed results are included on the following page(s)

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TESTING

Testing was carried out in accordance with EN 388:2016+A1:2018.

REQUIREMENTS

Table 1 – Requirements for EN 388:2016+A1:2018 Levels of performance

Performance Level	1	2	3	4	5
6.1 Abrasion resistance (Number of rubs)	100	500	2000	8000	-
6.2 Coupe test Blade cut resistance (index)	1.2	2.5	5.0	10	20
6.4 Tear resistance (N)	10	25	50	75	-
6.5 Puncture resistance (N)	20	60	100	150	-

TEST RESULTS

Table 2 - EN388:2016+A1:2018 Test Results

Clause / Test	Test Results			UoM (See note ♣)	Level		
6.1 Abrasion resistance	Sample	Failure between / cycles	Physical change observed at end point	± 5 %	Level 3●		
	1	3000-4000	Hole				
	2	3000-4000	Hole				
	3	8400	No Hole				
	4	8400	No Hole				
Abradant-Klingspor PL31B Gritt 180 Tape-3M 465 Abrasion machine compliant with EN 388:2016+A1:2018 Clause 6.1.3							
Clause / Test	Test Results				UoM (See note ♣)	Level	
6.2 Blade cut resistance	Sample	C _n Control specimen	Test specimen	C _{n+1} Control specimen	Cut Index	± 0.16	Level 1●
	Left	1.4	0.7	1.3	1.52		
		1.3	0.6	1.4	1.44		
		1.4	0.6	1.3	1.44		
		1.3	0.6	1.3	1.46		
		1.3	0.7	1.3	1.54		
	Mean				1.48		
	Right	1.3	0.6	1.3	1.46		

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Clause / Test	Test Results					UoM (See note ♣)	Level
		1.3	0.6	1.3	1.46		
		1.3	0.6	1.3	1.46		
		1.3	0.6	1.3	1.46		
		1.3	0.6	1.3	1.46		
	Mean				1.46		
	OLFA ® RB 45 mm blades used N° 14861 cotton canvas used from Tenthorey De La Plaine						

- Per the client's requirements, the abrasion resistance and blade cut resistance were performed on green latex coated glove.
According to the methods for testing the abrasion resistance and blade cut resistance of the protective glove against vibration, only the surface material of the glove shall be tested.

► 6.4 Tear resistance	Sample	Peak force / N	± 1.8 N	Level 4
	1	91.0		
	2	97.0		
	3	80.2		
	4	77.4		
► 6.5 Puncture resistance	Sample	Peak force / N	± 1.9 N	Level 1
	1	59.2		
	2	60.5		
	3	57.9		
	4	60.7		

Additional Information / Notes

Note ♣ – Estimated uncertainty of measurement applied at point of test (e.g. to applied force or to tolerance limits) to ensure product meets requirements of the standard.

Samples for testing were conditioned for at least 24 hours in a conditioned environment maintained at (23±2) °C and (50±5) % relative humidity.

Remark: '►' This test was started within five minutes after the specimens were removed from the defined conditions (23±2°C and 50±5% RH).

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Where values for uncertainty of measurement are included within the report then the uncertainty of the corresponding results are based on a standard uncertainty multiplied by a coverage factor $k=2$, which provides a coverage probability of approximately 95%.

When reporting results against a conformance statement (Pass/Fail or the allocation of a class or level) then uncertainty of measurement is taken into account based on a non-binary acceptance which itself is based on the guard band being equal to the expanded uncertainty.

Where the result corrected for uncertainty falls within the tolerance of the conformance statement then the risk of the conformance statement being a false accept or false reject is up to 2.5% and SATRA will in this instance quote a Pass/Fail, class, or level.

Where the result corrected for uncertainty falls outside of the tolerance of the conformance statement then the risk of the conformance statement being a false accept or false reject is up to 50%. In this instance SATRA will not provide a Pass/Fail statement or a class or level but will include information in the notes in relation to the result obtained.

Where a report contains SATRA guideline values then uncertainty of measurement values have been taken into account when determining the guideline values and as such are not considered when determining pass/ fail criteria.
