



This MotoCAP safety rating applies to:

Brand SA1NT

Model Women's Unbreakable

Type Jacket - Textile
Date purchased 13 December 2024

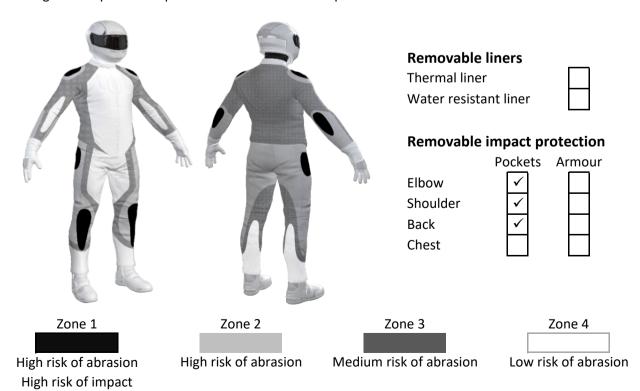
Sizes tested S and L
Test garment gender Female
Style All Purpose
RRP \$600.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	**	30.2
Abrasion	3/10	2.33
Burst	10/10	1852
Impact	1/10	0.0
MotoCAP Breathability Rating	**	0.363
Moisture Vapour Resistance	-	30.4
Thermal Resistance	-	0.184
Water resistance	N/A	N/A

Pockets are provided at the shoulders, elbows and back for fitting aftermarket impact protectors. Adding elbow and shoulder impact protectors would improve the protection levels of this garment. There are no vents to allow airflow movement through the garment.

Jacket and Pants - Crash Impact Risk Zones

This diagram is a pictorial representation of the crash impact risk Zones.





Abrasion Resistance

The jacket was tested for abrasion resistance in accordance with MotoCAP test protocols. The diagram below is a visual indication of the likely abrasion performance of the materials in each zone calculated from the data in the table below. The colour coding is based on the worst performing material in each zone.



Abrasion Resistance Performance

Abrasion rating	3/10
Abrasion score	2.33

Determining Criteria	Area	Good	Acceptable	Marginal	Poor
High abrasion risk	Zone 1 & 2	> 5.6	3.0 - 5.6	1.3 - 2.9	< 1.3
Medium abrasion risk	Zone 3	> 2.5	1.8 - 2.5	0.8 - 1.7	< 0.8
Low abrasion risk	Zone 4	>1.5	1.0 - 1.5	0.4 - 0.9	< 0.4

Individual Abrasion Resistance Results: - The table below shows the test results for time to abrade through all layers of the materials. Calculated for each sample by Zone, type and area coverage of each material as a proportion of that Zone. Abrasion times are capped at a maximum of 10.00s.

Abrasion time for each test (seconds)

Coverage (%)	Sample 1	<u> </u>	Sample 3	Sample 4	Sample 5	Sample 6	Average
100%	2.25	4 4 4					
	2.20	1.14	3.59	3.10	1.87	2.04	2.33
Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
100%	2.25	1.14	3.59	3.10	1.87	2.04	2.33
Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
100%	2.25	1.14	3.59	3.10	1.87	2.04	2.33
	100% Coverage (%)	100% 2.25 Coverage (%) Sample 1	100% 2.25 1.14 Coverage (%) Sample 1 Sample 2	100% 2.25 1.14 3.59 Coverage (%) Sample 1 Sample 2 Sample 3	100% 2.25 1.14 3.59 3.10 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4	100% 2.25 1.14 3.59 3.10 1.87 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5	100% 2.25 1.14 3.59 3.10 1.87 2.04 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 Sample 6

Details of materials used in jacket

Material A Denim fabric shell with mesh inner liner



Burst Strength

The jacket was tested for burst strength in accordance with MotoCAP test protocols. The diagram below illustrates the burst strength results in terms of the likely performance of the garment in an impact and is a pictorial representation of the data from the table below.



Burst Strength Performance

Burst rating	10/10
Burst score	1852

Determining Criteria	Unit	Good	Acceptable	Marginal	Poor
Burst strength	(kPa)	> 1000	800 - 1000	500 - 799	< 500

Individual Burst Strength Results: - The table below shows the burst pressure in kilopascals (kPA) for each sample tested by Zone and the average result for each zone.

Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Zones 1 & 2	2028	1992	2001	1990	1989	1994	1999	G
Zones 3 & 4	2006	675	2021	835	839	1215	1265	G



Impact Protection

This jacket was not tested for impact protection as impact protectors were not provided with the garment. The diagram below is a visual indication of the likely performance of each impact protector calculated from the data in the table below. The colour coding is based on the worst performing score for average or maximum force for each impact zone. Areas shaded black are not considered for impact protection ratings.



Impact Protection Performance

Impact rating 1/10 Impact score 0.0

Determining Criteria	Unit	Good	Acceptable	Marginal	Poor*
Impact force	(kN)	< 15	15 - 24	25 - 30	> 30

^{*} Poor may also indicate that no impact protector, or impact protector pocket is present in the garment

Individual Impact Protector Results: - The table below shows the test results for each strike on each impact protector in kilonewtons (kN) and their area of coverage as a proportion (%) of the Zone. Individual strike results are capped at a maximum of 50kN.

Impact protector type	Elbow	Shoulder
Average force (kN)	Р	P
Maximum force (kN)	Р	P
Coverage of Zone 1 area	0%	0%
Coverage of Zone after displacement	0%	0%

Individual Impact Protector Results: - The table below shows the test results for each strike on individual impact protectors in kilonewtons (kN) and the position of the strike. Individual strike results are capped at a maximum of 50kN.

Force transfer for each impact strike (kN)

Impact protector type	Elbow	No impact prot	tector present	Shoulder	No impact prof	tector present
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1						
Impact Protector 2						
Impact Protector 3						



Breathability

The jacket was tested for breathability following the MotoCAP test protocols. The table below shows the moisture vapour resistance and the thermal resistance values obtained.

Without removable li	With water-resistant liner				
Breathability rating	**	Brea	thability rating	N/A	
Breathability score 0.363		Brea	N/A		
Moisture Vapour Resis	stance - R _{et} (kPa.m²/W)	1	2	Average	
Without removable liners	S	30.4	30.3	30.4	
With water-resistant line	r	N/A	N/A	N/A	
Thermal Resistance - F	R _{ct} (K.m²/W)	1	2	Average	
Without removable liners	S	0.184	0.184	0.184	
With water-resistant line	r	N/A	N/A	N/A	

Water spray and rain resistance

This jacket has not been advertised as water-resistant so has not been tested for water spray and rain resistance.

Assessment Details.

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Date purchased 13 December 2024

Tested by AMCAF, Deakin University
Report approved by MotoCAP Chief Scientist

Garment test reference J25T14
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