

MOTOCAP

This MotoCAP safety rating applies to:

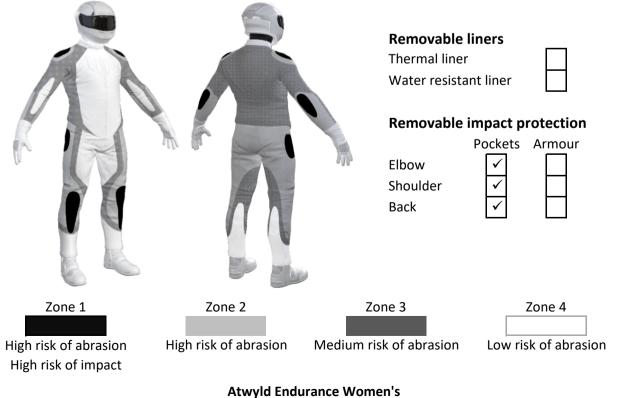
Brand	Atwyld
Model	Endurance Women's
Туре	Jacket - Textile
Date purchased	1 June 2023
Sizes tested	L and 2XL
Test garment gender	Female
Style	All Purpose
RRP	\$729.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	21.0
Abrasion	1/10	1.12
Burst	10/10	1542
Impact	1/10	0.0
MotoCAP Breathability Rating	**	0.367
Moisture Vapour Resistance	-	29.6
Thermal Resistance	-	0.181
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	1/10
Abrasion score	1.12

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) Average Zone 1 & 2 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 Sample 6 Material A 100% 1.44 1.13 1.07 1.12 1.00 0.95 1.12 Zone 3 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 Sample 6 Average Material A 100% 1.44 1.13 1.07 1.12 1.00 0.95 1.12 Zone 4 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 Sample 6 Average Material A 100% 1.44 1.13 1.07 1.12 1.00 0.95 1.12

Details of materials used in jacket

Material A Denim/high tenacity polyethylene fabric shell



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.



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.

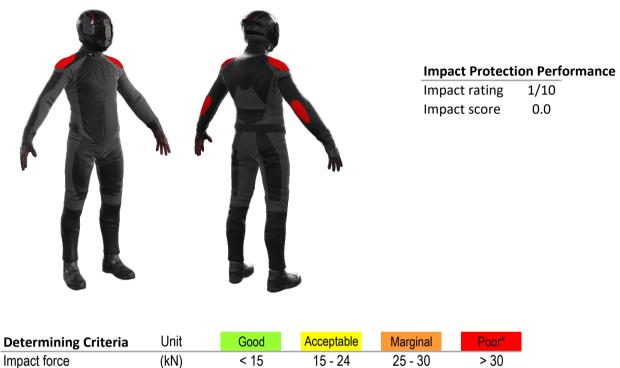
Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Zones 1 & 2	1661	1838	1584	1561	1553	1245	1573	G
Zones 3 & 4	1580	1615	1420	1513	1651	708	1414	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.



* 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 pro	tector present	Shoulder	No impact pro	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 liners		With	With water-resistant liner		
Breathability rating	**	Brea	thability rating	N/A	
Breathability score	0.367	Brea	thability score	N/A	
Moisture Vapour Resis	stance - R _{et} (kPa.m²/W)	1	2	Average	
Without removable liner	S	29.4	29.8	29.6	
With water-resistant line	Pr	N/A	N/A	N/A	
Thermal Resistance -	R _{ct} (K.m²/W)	1	2	Average	
Without removable liner	S	0.183	0.179	0.181	
With water-resistant line	PL	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.

Brand	Atwyld
Model	Endurance Women's
Туре	Jacket - Textile
Date purchased	1 June 2023
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	J23T30
Rating first published	July 2023
Rating updated	11 July 2023