



This MotoCAP safety rating applies to:

Brand Rjays

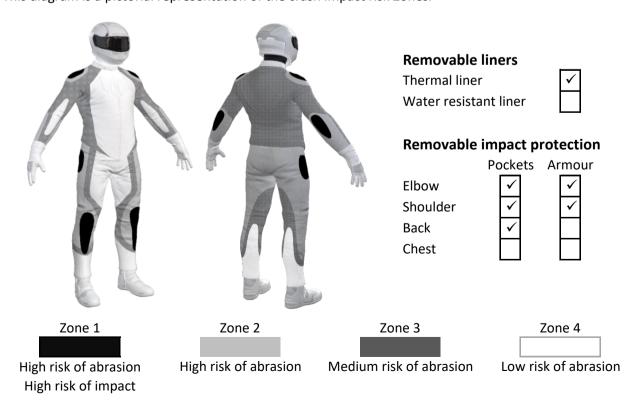
Model Athena Ladies
Type Jacket - Textile
Date purchased 26 May 2025
Sizes tested 10 and 12
Test garment gender Female
Style All Purpose
RRP \$269.95

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	23.7
Abrasion	1/10	0.64
Burst	10/10	1396
Impact	3/10	21.9
MotoCAP Breathability Rating	+	0.113
Moisture Vapour Resistance	-	143.8
Thermal Resistance	-	0.272
Water resistance	1/10	39.0

This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided for an aftermarket back protector. Replacing the elbow and shoulder armour with higher performing impact protectors would improve the protection levels of this garment. There are zipped vents in the chest, arms and back to allow controlled airflow movement through the garment. The breathability rating is based on tests of the garment's materials when all vents are closed. The breathability of this product may be better when the vents are opened. Breathability was measured without the removable thermal liner installed.

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	0.64

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	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
100%	0.74	0.36	0.50	0.40	1.06	0.76	0.64
Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
100%	0.74	0.36	0.50	0.40	1.06	0.76	0.64
Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
100%	0.74	0.36	0.50	0.40	1.06	0.76	0.64
	100% Coverage (%) 100% Coverage (%)	Coverage (%) Sample 1 100% 0.74 Coverage (%) Sample 1	100% 0.74 0.36 Coverage (%) Sample 1 Sample 2 100% 0.74 0.36 Coverage (%) Sample 1 Sample 2	100% 0.74 0.36 0.50 Coverage (%) Sample 1 Sample 2 Sample 3 100% 0.74 0.36 0.50 Coverage (%) Sample 1 Sample 2 Sample 3	100% 0.74 0.36 0.50 0.40 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 100% 0.74 0.36 0.50 0.40 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4	100% 0.74 0.36 0.50 0.40 1.06 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 100% 0.74 0.36 0.50 0.40 1.06 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5	100% 0.74 0.36 0.50 0.40 1.06 0.76 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 Sample 6 100% 0.74 0.36 0.50 0.40 1.06 0.76 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 Sample 6

Details of materials used in jacket

Material A Woven fabric shell, water-resistant layer and 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	1396	

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	1487	1362	1513	1506	1367	1458	1449	G
Zones 3 & 4	1207	1302	954	1224	970	1453	1185	G



Impact Protection

The jacket was tested for impact protection and coverage in accordance with MotoCAP test protocols. 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	3/10
Impact score	21.9

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)	25.6	M	30.1 P
Maximum force (kN)	30.6	P	33.8 P
Coverage of Zone 1 area	95%		100%
Coverage of Zone after displacement	85%		100%

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			Shoulder		
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	21.9	22.2	30.6	29.1	27.5	33.8
Impact Protector 2	21.2	26.4	27.9	25.8	30.4	33.2
Impact Protector 3	24.1	27.1	29.2	28.5	31.6	31.2



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			ant liner	
Breathability rating		Breathability rating		
0.113	Brea	thability score	N/A	
e - R _{et} (kPa.m²/W)	1	2	Average	
	146.7	140.9	143.8	
	N/A	N/A	N/A	
m ² /W)	1	2	Average	
	0.270	0.274	0.272	
	N/A	N/A	N/A	
	9 0.113 e - R _{et} (kPa.m ² /W)	Brea 0.113 Brea 0.113 e - R _{et} (kPa.m²/W) 1 146.7 N/A 1.m²/W) 1 0.270	Breathability rating 0.113 Breathability rating Breathability score e - R _{et} (kPa.m²/W) 1 2 146.7 140.9 N/A N/A N/A 1.m²/W) 1 2 0.270 0.274	

Water spray and rain resistance

This jacket is advertised as water-resistant, and so has been tested for water spray and rain resistance according to the MotoCAP test protocols. The table below shows the water absorbed (ml) and the wetting proportion (%) of the garment and undergarments due to water absorption.

	Water absorb	/ater absorbed by garment		Water absorbed by underwear		
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)	Water Resista	nce
Jacket 1	68	6%	68	23%	Performance	
Jacket 2	161	15%	161	55%	Water rating	1/10
Average	114	11%	114	39%	Water Score	38.99

Location of wetting

There was major wetting to the cotton underwear present at the cuffs of the sleeves, neck and chest for one jacket, major wetting at the cuffs of the sleeves and neck, and minor wetting at the chest of the other jacket tested.

Assessment Details	•		
Brand	Rjays		
Model	Athena Ladies		
Туре	Jacket - Textile		
Date purchased	26 May 2025		
Tested by	AMCAF, Deakin University		
Report approved by	MotoCAP Chief Scientist		
Garment test reference	J25T35		
Rating first published	August 2025		
Rating updated	13 August 2025		