



This MotoCAP safety rating applies to:

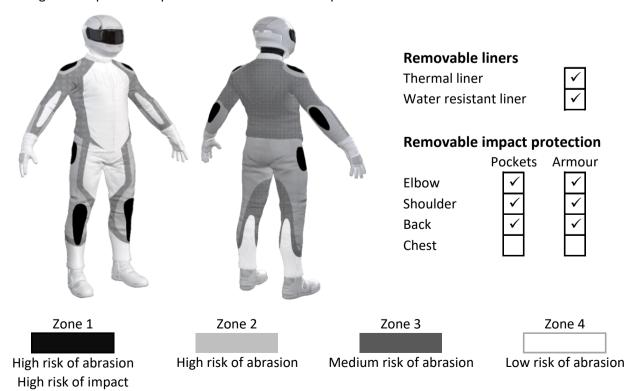
Brand Rjays Model Air-Tech Type Jacket - Textile Date purchased 24 March 2025 Sizes tested M and XL Male Test garment gender Style All Purpose RRP \$399.95

Test Results Summary	Rating	Score
MotoCAP Protection Rating	***	50.8
Abrasion	4/10	2.83
Burst	10/10	1617
Impact	9/10	68.2
MotoCAP Breathability Rating	**	0.396
Moisture Vapour Resistance	-	38.4
Thermal Resistance	-	0.253
Water resistance	1/10	47.6

This garment is fitted with impact protectors for the elbows, shoulders and back. There are no vents to allow airflow movement through the garment. This garment has a removable water-resistant liner. The breathability rating above was achieved with the thermal and water-resistant liners removed. When tested with the water-resistant liner installed, the breathability rating reduced to 1 star.

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	4/10
Abrasion score	2.83

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)

Zone 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	90%	5.01	5.47	5.54	4.72	9.79	5.08	5.93	G
Material B	10%	0.71	0.48	0.40	0.50	0.48	0.44	0.50	Р
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	20%	0.71	0.48	0.40	0.50	0.48	0.44	0.50	Р
Material C	80%	0.48	0.39	0.40	0.32	0.42	0.42	0.41	Р
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	10%	0.71	0.48	0.40	0.50	0.48	0.44	0.50	М
Material C	90%	0.48	0.39	0.40	0.32	0.42	0.42	0.41	М

Details of materials used in jacket

Material A	Leather shell over woven fabric shell with mesh inner lines
Material B	Woven fabric shell with mesh inner liner
Material C	Mesh 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.



Bu	rst :	Strer	ngth Performance
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Burst rating	10/10
Burst score	1617

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	1709	1839	1879	1742	1828	1776	1795	G
Zones 3 & 4	641	769	1148	902	1035	923	903	Α



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 9/10 Impact score 68.2

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)	13.0	G	11.3 G
Maximum force (kN)	18.3	Α	17.0 A
Coverage of Zone 1 area	150%		100%
Coverage of Zone after displacement	100%		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	9.7	13.3	18.3	9.5	11.4	12.1		
Impact Protector 2	10.7	10.2	11.4	9.7	10.3	11.2		
Impact Protector 3	11.1	14.8	17.4	9.9	10.5	17.0		



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	ners	With water-resistant liner			
Breathability rating	**	Breat	thability rating	*	
Breathability score	0.396	Breat	thability score	0.275	
Moisture Vapour Resis	tance - R _{et} (kPa.m²/W)	1	2	Average	
Without removable liners	3	37.5	39.3	38.4	
With water-resistant line	r	70.3	71.7	71.0	
Thermal Resistance - F	R _{ct} (K.m²/W)	1	2	Average	
Without removable liners	3	0.245	0.261	0.253	
With water-resistant line	r	0.322	0.328	0.325	

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 absorbe	ed by garment	Water absorbe	ed by underwear		
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)	Water Resistar	nce
Jacket 1	749	46%	140	47%	Performance	
Jacket 2	664	40%	139	49%	Water rating	1/10
Average	707	43%	140	48%	Water Score	47.59

Location of wetting

There was major wetting to the cotton underwear present at the cuffs of the sleeves for both jackets, and major wetting at the abdomen of the second jacket tested.

Assessment Details.	
Brand	Rjays
Model	Air-Tech
Туре	Jacket - Textile
Date purchased	24 March 2025
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	J25T25
Rating first published	June 2025
Rating updated	25 June 2025