This MotoCAP safety rating applies to:

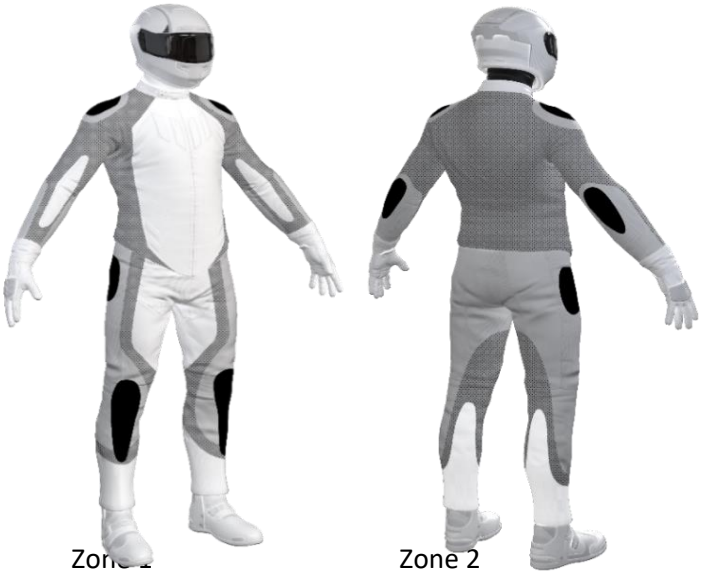
Brand	Bikers Gear
Model	Chicane WP Summer Mesh
Type	Jacket - Textile
Date purchased	30 August 2024
Sizes tested	XL
Test garment gender	Male
Style	All Purpose
RRP	$199.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	★	16.0
Abrasion	1/10	0.34
Burst	10/10	1433
Impact	1/10	0.0
MotoCAP Breathability Rating	★	0.113
Moisture Vapour Resistance	-	131.7
Thermal Resistance	-	0.248
Water resistance	1/10	71.1

Pockets are provided at the elbows, shoulders and back for fitting aftermarket impact protectors. The foam pads present in elbow and shoulder armour pockets were fillers and not tested as they were not considered impact protectors and would provide limited, if any, energy absorption. Adding elbow and shoulder impact protectors would improve the protection levels of this garment. Mesh panels are located in the arms, chest and back to allow airflow movement through the garment. This garment has a removable water-resistant liner. The breath-ability rating above was achieved with the thermal and water-resistant liners removed. When tested with the water-resistant liner installed, the breathability rating reduced but remained within half a star range.

Jacket and Pants - Crash Impact Risk Zones

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



Removable liners

Thermal liner	✓
Water resistant liner	✓

Removable impact protection

	Pockets	Armour
Elbow	✓	
Shoulder	✓	
Back	✓	
Chest		

Zone 1	Zone 2	Zone 3	Zone 4
High risk of abrasion High risk of impact	High risk of abrasion	Medium risk of abrasion	Low risk of abrasion

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	0.34

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	60%	0.60	0.08	0.41	0.76	0.40	0.48	0.46	P
Material B	40%	0.24	0.37	0.40	0.28	0.36	0.37	0.34	P
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	**Average**	
Material A	15%	0.60	0.08	0.41	0.76	0.40	0.48	0.46	P
Material B	85%	0.24	0.37	0.40	0.28	0.36	0.37	0.34	P
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	**Average**	
Material A	30%	0.60	0.08	0.41	0.76	0.40	0.48	0.46	M
Material B	70%	0.24	0.37	0.40	0.28	0.36	0.37	0.34	P

Details of materials used in jacket

Material A	Woven fabric shell with mesh inner liner
Material B	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.

Burst Strength Performance	
Burst rating	10/10
Burst score	1433

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	1792	1920	1251	1195	1823	1131	1519	G
Zones 3 & 4	1293	1025	1002	970	1150	1092	1089	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)		P		P
Maximum force (kN)		P		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 protector present		Shoulder	No impact protector 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 water-resistant liner	
Breathability rating	1	Breathability rating	1
Breathability score	0.113	Breathability score	0.042

Moisture Vapour Resistance - R_{et} (kPa.m^2/W)	1	2	Average
Without removable liners	132.3	131.2	131.7
With water-resistant liner	521.7	533.4	527.5

Thermal Resistance - R_{ct} (K.m^2/W)	1	2	Average
Without removable liners	0.240	0.256	0.248
With water-resistant liner	0.381	0.366	0.374

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 absorbed by garment		Water absorbed by underwear		
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)	**Water Resistance**
Jacket 1	642	38%	194	69%	**Performance**
Jacket 2	690	41%	202	73%	Water rating 1/10
Average	666	40%	198	71%	Water Score 71.14

Location of wetting

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

Assessment Details.

Brand	Bikers Gear
Model	Chicane WP Summer Mesh
Type	Jacket - Textile
Date purchased	30 August 2024
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	J25T05
Rating first published	January 2025
Rating updated	20 January 2025