



This MotoCAP safety rating applies to:

Brand MotoDry Model Clio

Type Textile Jacket

Date purchased 20 January 2024

Date purchased 20 January 20 Sizes tested 12 and 14 Test garment gender Style All Purpose

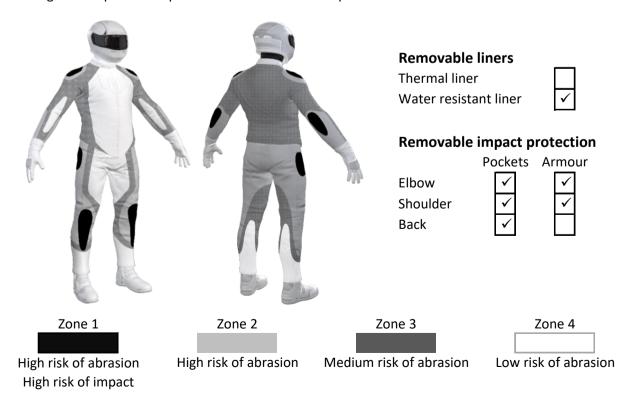
RRP \$199.95

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	21.1
Abrasion	1/10	0.63
Burst	10/10	1187
Impact	3/10	20.3
MotoCAP Breathability Rating	**	0.330
Moisture Vapour Resistance	-	39.1
Thermal Resistance	-	0.215
Water resistance	1/10	78.4

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. 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 breathability rating above was achieved with the water-resistant liner removed. When tested with the water-resistant liner installed, the breathability rating reduced to half a 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 1/10 Abrasion score 0.63

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	70%	1.12	0.73	1.29	1.17	1.10	1.31	1.12 P
Material B	30%	0.81	0.62	0.56	0.52			0.63 P
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	35%	0.81	0.62	0.56	0.52			0.63 P
Material C	65%	0.37	0.27	0.35	0.35	0.28	0.35	0.33 P
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	30%	1.12	0.73	1.29	1.17	1.10	1.31	1.12 A
Material C	70%	0.37	0.27	0.35	0.35	0.28	0.35	0.33 P

Details of materials used in jacket

Material A	Shiny twill fabric shell with mesh inner line
Material B	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.



Burst Strength Pe	erformance
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Burst rating	10/10
Burst score	1187

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	1440	1431	604	918	1417	1451	1210 G
Zones 3 & 4	713	1473	1278	1080	1102	904	1092 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 20.3

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)	28.7 M	28.1 M
Maximum force (kN)	37.6 P	31.6 P
Coverage of Zone 1 area	115%	110%
Coverage of Zone after displacement	80%	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	20.4	23.6	31.8	26.2	26.7	31.6
Impact Protector 2	22.5	28.1	37.5	25.3	25.7	26.8
Impact Protector 3	26.5	30.8	37.6	28.4	31.0	31.5



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	7	
Breathability score	0.330	Breathability score		0.024	
Moisture Vapour Resi	stance - R _{et} (kPa.m²/W)	1	2	Average	
Without removable line	rs	40.5	37.6	39.1	
With water-resistant line	er	673.7	656.5	665.1	
Thermal Resistance -	R _{ct} (K.m ² /W)	1	2	Average	
Without removable line	rs	0.213	0.216	0.215	
With water-resistant line	er	0.259	0.279	0.269	

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 (%)
Jacket 1	785	55%	269	99%
Jacket 2	653	46%	159	58%
Average	719	50%	214	78%

Location of wetting

There was major wetting to the cotton underwear present at the cuffs of the sleeves and chest for both jackets tested.

Assessment Details.

Brand MotoDry Model Clio

Type Textile Jacket
Date purchased 20 January 2024

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

Garment test reference J24T18
Rating first published March 2024
Rating updated 21 October 2024