



### This MotoCAP safety rating applies to:

Brand MotoDry Model Clio

Type Textile Jacket

Date purchased 20 January 2024

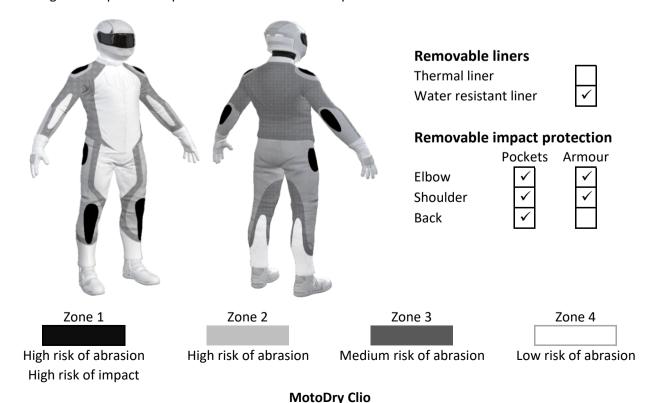
Sizes tested 12 and 14
Test garment gender Female
Style All Purpose
RRP \$199.95

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	24.8
Abrasion	1/10	0.63
Burst	10/10	1187
Impact	5/10	32.7
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. 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

<b>Determining Criteria</b>	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	Р
Material B	30%	0.81	0.62	0.56	0.52	N/A	N/A	0.63	Р
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	N/A	N/A	0.63	Р
Material C	65%	0.37	0.27	0.35	0.35	0.28	0.35	0.33	Р
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	Α
Material C	70%	0.37	0.27	0.35	0.35	0.28	0.35	0.33	Р

### Details of materials used in jacket

Material A	Shiny twill fabric shell with mesh inner liner
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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 Performance**

Burst rating	10/10
Burst score	1187

<b>Determining Criteria</b>	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 5/10
Impact score 32.7

<b>Determining Criteria</b>	Unit	Good	Acceptable	Marginal	Poor*
Impact force	(kN)	< 15	15 - 24	25 - 30	> 30

<sup>\*</sup> 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)	22.9	A	22.3	Α
Maximum force (kN)	31.8	Р	25.9	M
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	14.4	17.6	26.0	20.3	20.9	25.9
Impact Protector 2	16.5	22.4	31.6	19.4	20.1	20.9
Impact Protector 3	20.4	25.1	31.8	22.4	25.4	25.6



## 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	With water-resistant liner				
Breathability rating	**	Breat	<b>√</b> 0.024		
Breathability score	0.330	Breathability score			
Moisture Vapour Resis	stance - R <sub>et</sub> (kPa.m²/W)	1	2	Average	
Without removable liners	S	40.5	37.6	39.1	
With water-resistant line	r	673.7	656.5	665.1	
Thermal Resistance - R <sub>ct</sub> (K.m²/W)		1	2	Average	
Without removable liners	S	0.213	0.216	0.215	
With water-resistant line	r	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	
Туре	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	25 March 2024	