



This MotoCAP safety rating applies to:

Brand MotoDry

Model Clubman Vintage
Type Jacket - Textile
Date purchased 12 September 2022

Sizes tested XL and 2XL

Test garment gender Male

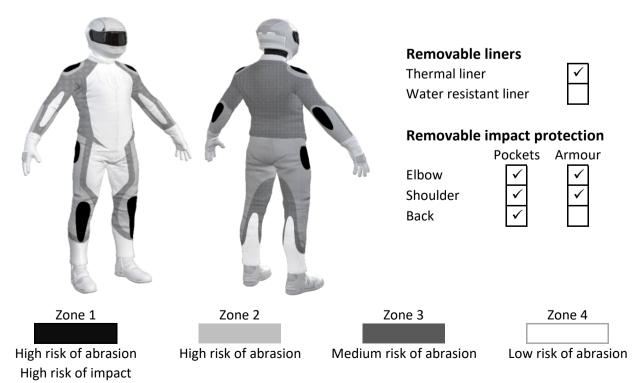
Style All Purpose RRP \$209.95

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	20.8
Abrasion	1/10	0.23
Burst	10/10	1469
Impact	2/10	16.4
MotoCAP Breathability Rating	*	0.208
Moisture Vapour Resistance	-	102.3
Thermal Resistance	-	0.355
Water resistance	3/10	18.0

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 no vents to allow airflow movement through the garment. 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	0.23

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	40%	2.16	1.79	1.28	2.19			1.86
Material B	60%	0.74	0.55	0.63	0.82	0.60	0.64	0.66
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.74	0.55	0.63	0.82	0.60	0.64	0.66
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.74	0.55	0.63	0.82	0.60	0.64	0.66

Details of materials used in jacket

Material A	Woven fabric shell, foam layer, water-resistant layer and mesh inner liner
Material B	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 rating	10/10
Burst score	1469

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	1601	1775	1486	1350	1583	1402	1533	G
Zones 3 & 4	1456	828	1326	1343	1472	846	1212	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 2/10
Impact score 16.4

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)	27.2	M	30.9 P
Maximum force (kN)	36.3	Р	37.3 P
Coverage of Zone 1 area	95%		100%
Coverage of Zone after displacement	70%		90%

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	23.0	25.9	24.9	25.0	29.4	30.5	
Impact Protector 2	27.3	23.5	29.6	29.4	36.4	37.3	
Impact Protector 3	27.1	26.8	36.3	30.7	30.5	28.6	



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	hability rating	N/A
Breathability score	0.208	Breat	hability score	N/A
Moisture Vapour Resis	tance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liners	3	106.4	98.2	102.3
With water-resistant line	N/A	N/A	N/A	
Thermal Resistance - R _{ct} (K.m²/W)		1	2	Average
Without removable liners	3	0.350	0.360	0.355
With water-resistant line	r	N/A	N/A	N/A

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	177	14%	34	12%	
Jacket 2	170	14%	67	24%	
Average	174	14%	51	18%	

Location of wetting

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

Assessment Details.	
Brand	MotoDry
Model	Clubman Vintage
Туре	Jacket - Textile
Date purchased	12 September 2022
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	J21T15
Rating first published	January 2023
Rating updated	16 January 2023