



This MotoCAP safety rating applies to:

Brand Brixton Model Aviator

Type Jacket - Leather
Date purchased 20 February 2023

Sizes tested XXL

Test garment gender Male

Style All Purpose

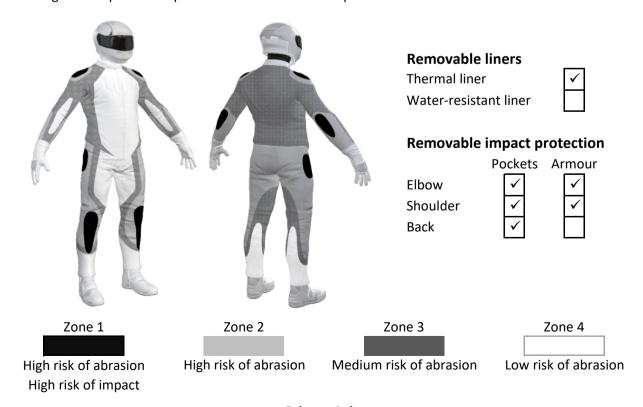
RRP \$549.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	***	41.1
Abrasion	4/10	3.18
Burst	10/10	1104
Impact	6/10	47.4
MotoCAP Breathability Rating	**	0.370
Moisture Vapour Resistance	-	41.1
Thermal Resistance	-	0.253
Water resistance	N/A	N/A

This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided for an aftermarket back protector. There are zipped vents in the chest to allow controlled airflow movement through the garment. The breathability rating is based on tests of the garment's materials when all vents are closed. The breathability of this product may be better when the vents can be opened. 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	4/10
Abrasion score	3.18

Determining Criteria	Area	Good	Acceptable	Marginal	Poor
High abrasion risk	Zones 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)

Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	2.58	2.45	4.12	3.57	2.32	4.02	3.18	Α
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	2.58	2.45	4.12	3.57	2.32	4.02	3.18	G
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	2.58	2.45	4.12	3.57	2.32	4.02	3.18	G

Details of materials used in jacket

Material A Leather shell with fabric 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	1104

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	1503	1288	846	878	986	1240	1124	G
Zones 3 & 4	761	880	864	1211	907	1519	1024	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 6/10

Impact score

47.4

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

Impact Protector Results: - The table below shows the average and maximum force transmitted through each impact protector type in kilonewtons (kN) and their area of coverage as a proportion (%) of the Zone.

Impact protector type	Elbow		Shoulder
Average force (kN)	18.1	Α	16.9 A
Maximum force (kN)	21.8	A	18.7 A
Coverage of Zone 1 area	115%	<u> </u>	95%
Coverage of Zone after displacement	100%		95%

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	15.0	17.5	18.0	16.9	16.6	18.0
Impact Protector 2	17.6	18.0	21.8	17.1	14.8	17.0
Impact Protector 3	17.8	17.1	20.2	15.7	17.0	18.7



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.

ners	With	n water-resista	esistant liner		
Breathability rating ★★		thability rating	N/A		
0.370	Brea	thability score	N/A		
tance - R _{et} (kPa.m²/W)	1	2	Average		
3	41.4	40.8	41.1		
r	N/A	N/A	N/A		
R _{ct} (K.m²/W)	1	2	Average		
3	0.250	0.256	0.253		
r	N/A	N/A	N/A		
	★★ 0.370 stance - R _{et} (kPa.m²/W) stance - R _{ct} (K.m²/W)	★★ Brea 0.370 Brea stance - Ret (kPa.m²/W) 1 s 41.4 N/A N/A Rct (K.m²/W) 1 s 0.250	★★ Breathability rating Breathability score 0.370 Breathability score stance - Ret (kPa.m²/W) 1 2 41.4 40.8 N/A N/A Rct (K.m²/W) 1 2 3 0.250 0.256		

Water spray and rain resistance

This jacket has not been advertised as water-resistant so has not been tested for water spray and rain resistance.

Assessment Details.

Brand Brixton Model Aviator

Type Jacket - Leather
Date purchased 20 February 2023

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

Garment test reference J23L04
Rating first published May 2023
Rating updated 23 May 2023