



This MotoCAP safety rating applies to:

Brand Bull'it

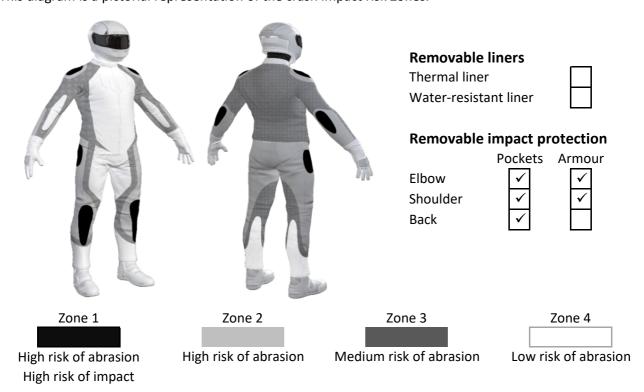
Model Carbon 17 Ladies
Type Jacket - Textile
Date purchased 4 March 2020
Sizes tested M and XL
Test garment gender Female
Style All Purpose
RRP \$349.95

Test Results Summary	Rating	Score
MotoCAP Protection Rating	***	45.4
Abrasion	6/10	4.37
Burst	10/10	1012
Impact	6/10	44.9
MotoCAP Breathability Rating	***	0.424
Moisture Vapour Resistance	-	27.9
Thermal Resistance	-	0.197
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 no vents to allow airflow movement through the garment.

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	6/10
Abrasion score	4.37

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)

ADIASION UNIE	ioi eacii test (set	,ulius)							
Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	6.53	4.58	5.11	7.60			5.96	G
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	40%	6.53	4.58	5.11	7.60			5.96	G
Material B	60%	0.72	0.66	0.58	0.68			0.66	Р
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	0.72	0.66	0.58	0.68			0.66	M

Details of materials used in jacket

Material A	Denim fabric shell, Vectran fabric layer and mesh inner liner
Material B	Denim 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	1012

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	1186	657	1687	745	710	1164	1025	G
Zones 3 & 4	752	1055	966	1098	866	1025	960	Α



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 maximium force for each impact zone. Areas shaded black are not considered for impact protection ratings.



Impact Protection Performance
Impact rating 6/10
Impact score 44.9

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)	20.6	A	19.0 A
Maximum force (kN)	30.7	Р	29.0 M
Coverage of Zone 1 area	130%		130%
Coverage of Zone after displacement	100%		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	13.3	19.4	26.1	12.0	16.8	28.5
Impact Protector 2	14.1	19.2	30.0	12.7	17.7	29.0
Impact Protector 3	14.6	18.3	30.7	15.0	16.4	22.6



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	ners	With water-resistant liner				
Breathability rating	***	Breat	thability rating	N/A		
Breathability score	0.424	Breathability score		N/A		
Moisture Vapour Resis	tance - R _{et} (kPa.m²/W)	1	2	Average		
Without removable liners	3	27.6	28.1	27.9		
With water-resistant line	ſ	N/A	N/A	N/A		
Thermal Resistance - F	R _{ct} (K.m²/W)	1	2	Average		
Without removable liners	3	0.200	0.194	0.197		
With water-resistant line	r	N/A	N/A	N/A		

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 Bull'it

Model Carbon 17 Ladies
Type Jacket - Textile
Date purchased 4 March 2020

Tested by AMCAF, Deakin University

Garment test reference J19T45
Rating first published August 2020
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