

мотосар

Brand	Bull-it		
Model	Covert EVO		
Туре	Pants - Denim		
Date purchased	5 May 2023		
Sizes tested	36 and 40		
Test garment gender	Male		
	All Purpose		
Style	All Pulpose		
Style RRP	\$249.95		
RRP Test Results Summary	\$249.95 Rating	Score	
RRP Test Results Summary MotoCAP Protection Rati	\$249.95 Rating ng ★★	37.0	
RRP Test Results Summary MotoCAP Protection Rati Abrasion	\$249.95 Rating ng ★★ 3/10	37.0 2.27	
RRP Test Results Summary MotoCAP Protection Rati Abrasion Burst	\$249.95 Rating ng ★★ 3/10 10/10	37.0 2.27 1052	
RRP Test Results Summary MotoCAP Protection Rati Abrasion Burst Impact	\$249.95 Rating ng ★★ 3/10 10/10 7/10	37.0 2.27 1052 50.5	
RRP Test Results Summary MotoCAP Protection Rati Abrasion Burst Impact MotoCAP Breathability R	\$249.95 Rating ng ★★ 3/10 10/10 7/10 ating ★★★	37.0 2.27 1052 50.5 0.490	
RRP Test Results Summary MotoCAP Protection Rati Abrasion Burst Impact	\$249.95 Rating ng ★★ 3/10 10/10 7/10 ating ★★★	37.0 2.27 1052 50.5	

N/A

N/A

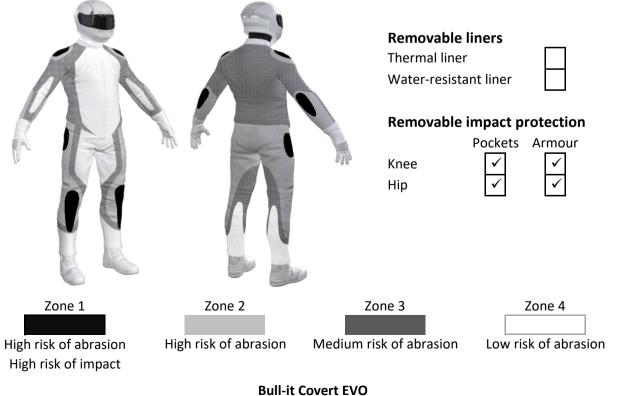
This MotoCAP safety rating applies to:

This garment is fitted with impact protectors for the knees and hips. There are no vents to allow airflow movement through the garment.

Water resistance

Jacket and Pants - Crash Impact Risk Zones

This diagram is a pictorial representation of the crash impact risk Zones.





Abrasion Resistance

These pants were 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 rating	3/10
Abrasion score	2.27

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%	3.70	2.36	3.02	2.36	2.49	2.63	2.76 M
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	15%	3.70	2.36	3.02	2.36	2.49	2.63	2.76 G
Material B	85%	1.85	1.06	1.52	1.50	1.10	1.40	1.40 M
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	1.85	1.06	1.52	1.50	1.10	1.40	1.40 A

Details of materials used in pant

Material A	Denim fabric shell, knitted fabric layer and mesh inner layer
Material B	Denim fabric shell



Burst Strength

These pants were 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 Strengt	h Performance
Burst rating	10/10
Burst score	1052

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.

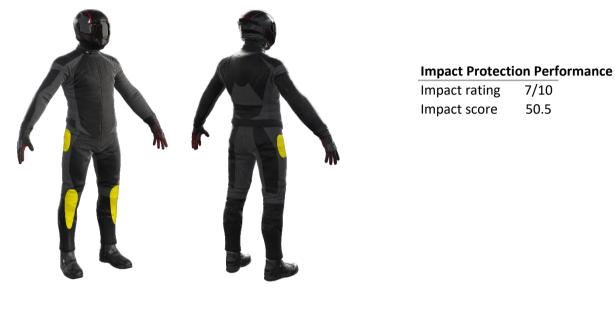
Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Zones 1 & 2	1198	1235	1064	1051	1039	837	1070	G
Zones 3 & 4	800	765	941	936	1005	1428	979	Α



Impact Protection

These pants were 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.



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	Knee		Hip
Average force (kN)	14.6	G	16.5 A
Maximum force (kN)	20.3	Α	19.9 A
Coverage of Zone 1 area	95%		140%
Coverage of Zone after displacement	50%		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.

	e transfer for each impact strike (kN)	
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Impact protector type	Knee			Hip		
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	12.4	13.2	20.3	14.3	17.3	19.9
Impact Protector 2	13.4	13.6	13.1	14.7	15.4	16.8
Impact Protector 3	13.8	15.5		15.0	15.9	19.2



Breathability

These pants were tested for breathability following the MotoCAP test protocols. The table below shows the moisture vapour resistance and the thermal resistance values obtained.

Without removable	With water-resistant liner			
Breathability rating	***	Brea	thability rating	N/A
Breathability score	0.490	Brea	thability score	N/A
Moisture Vapour Resi	stance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liner	rs	30.1	27.9	29.0
With water-resistant line	er	N/A	N/A	N/A
Thermal Resistance - R _{ct} (K.m²/W)		1	2	Average
Without removable liner	rs	0.234	0.239	0.236
With water-resistant line	er	N/A	N/A	N/A

Water spray and rain resistance

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

Assessment Details.

Brand	Bull-it		
Model	Covert EVO		
Туре	Pants - Denim		
Date purchased	5 May 2023		
Tested by	AMCAF, Deakin University		
Report approved by	MotoCAP Chief Scientist		
Garment test reference	P23D05		
Rating first published	June 2023		
Rating updated	19 June 2023		