



This MotoCAP safety rating applies to:

Brand Rev'It Model Sand 4

Type Jacket - Textile
Date purchased 20 August 2024

Sizes tested L and XL Test garment gender Male

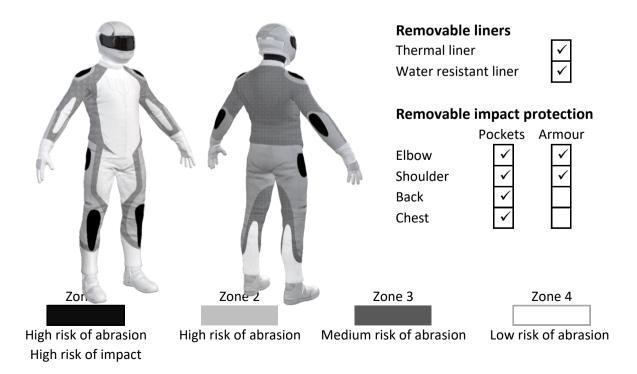
Style All Purpose RRP \$849.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	**	32.6
Abrasion	1/10	0.79
Burst	10/10	1185
Impact	8/10	56.0
MotoCAP Breathability Rating	*	0.179
Moisture Vapour Resistance	-	141.3
Thermal Resistance	-	0.421
Water resistance	1/10	30.0

This garment is fitted with impact protectors for the elbows and shoulders. Pockets are provided at chests and back for fitting aftermarket impact protectors. There are zipped vents in the chest, arms and back 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 are opened. 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	0.79

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)

ADIASION UNIO	ioi eacii test (300011u3/						
Zone 1 & 2	Coverage (%	(a) Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.80	1.02	0.85	0.97	0.57	0.52	0.79
Zone 3	Coverage (%	6) Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.80	1.02	0.85	0.97	0.57	0.52	0.79
Zone 4	Coverage (%	(a) Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.80	1.02	0.85	0.97	0.57	0.52	0.79

Details of materials used in jacket

Material A Woven 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	1185

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	991	1389	894	948	1183	1771	1196	G
Zones 3 & 4	1380	648	965	796	1444	1625	1143	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	8/10
Impact score	56.0

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)	18.0	A	15.5 A
Maximum force (kN)	25.2	M	20.3 A
Coverage of Zone 1 area	150%	_	110%
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	13.6	15.5	25.2	13.5	14.7	17.0	
Impact Protector 2	14.9	16.4	18.3	14.5	16.1	15.5	
Impact Protector 3	16.6	16.6	24.5	13.6	14.4	20.3	



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	liners	Witl	With water-resistant liner			
Breathability rating ★		Brea	thability rating	+		
Breathability score	0.179	Breathability score		0.145		
Moisture Vapour Res	istance - R _{et} (kPa.m²/W)	1	2	Average		
Without removable line	rs	139.9	142.7	141.3		
With water-resistant lin	er	151.0	147.4	149.2		
Thermal Resistance -	R _{ct} (K.m ² /W)	1	2	Average		
Without removable line	rs	0.406	0.435	0.421		
With water-resistant lin	er	0.375	0.345	0.360		

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 (%)	Water Resista	nce
Jacket 1	678	34%	83	28%	Performance	
Jacket 2	747	39%	95	32%	Water rating	1/10
Average	713	37%	89	30%	Water Score	29.98

Location of wetting

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

Assessment Details	•		
Brand	Rev'lt		
Model	Sand 4		
Туре	Jacket - Textile		
Date purchased	20 August 2024		
Tested by	AMCAF, Deakin University		
Report approved by	MotoCAP Chief Scientist		
Garment test reference	J25T01		
Rating first published	November 2024		
Rating updated	19 November 2024		