

MOTOCAP

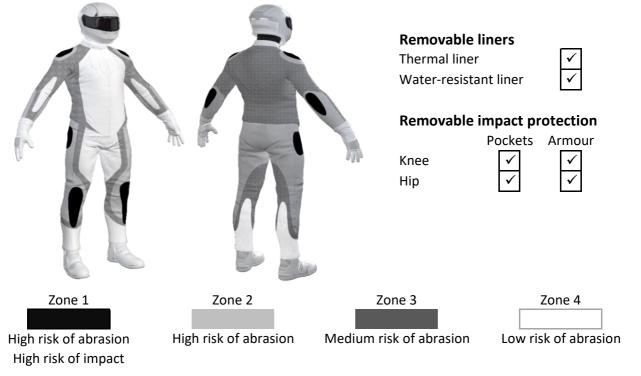
Brand	Rev'lt	
Model	Sand 3	
Туре	Pants - Textile	
Date purchased	13 January 2021	L
Sizes tested	XL and 2XL	
Test garment gender	Male	
Style	Tourer	
RRP	\$528.95	
Test Results Summary	Rating	Score
Test Results Summary MotoCAP Protection Rat	•	-
	•	-
MotoCAP Protection Rat	ing ★	25.5 0.91
MotoCAP Protection Rati	ing ★ 1/10	25.5 0.91
MotoCAP Protection Rat Abrasion Burst	ing ★ 1/10 10/10 4/10	25.5 0.91 1204 29.6
MotoCAP Protection Rat Abrasion Burst Impact	ing ★ 1/10 10/10 4/10 Rating ★★	25.5 0.91 1204 29.6
MotoCAP Protection Rat Abrasion Burst Impact MotoCAP Breathability R	ing ★ 1/10 10/10 4/10 Rating ★★	1204 29.6 0.307

This MotoCAP safety rating applies to:

This garment is fitted with impact protectors for the knees and hips. Replacing the hip armour with higher performing impact protectors would improve the protection levels of this garment. There are vents in the upper legs to allow 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. This garment has a removable water-resistant liner. The breathability rating above was achieved with the thermal and water-resistant liners removed. When tested with the water resistant-liner installed, the breathability rating reduced to 1 star.

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 Resistance Performance

Abrasion rating	1/10
Abrasion score	0.91

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	90%	1.54	0.93	0.89	1.25	0.90	0.97	1.08 P
Material B	10%	0.68	0.77	0.61	0.83	0.75	0.65	0.71 P
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	30%	1.54	0.93	0.89	1.25	0.90	0.97	1.08 M
Material B	70%	0.68	0.77	0.61	0.83	0.75	0.65	0.71 P
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	20%	1.54	0.93	0.89	1.25	0.90	0.97	1.08 A
Material B	80%	0.68	0.77	0.61	0.83	0.75	0.65	0.71 M

Details of materials used in jacket

Material A	Woven fabric shell, woven fabric layer and mesh inner liner
Material B	Woven fabric shell with mesh inner liner



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 Strength Performance					
Burst rating	10/10				
Burst score	1204				

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.

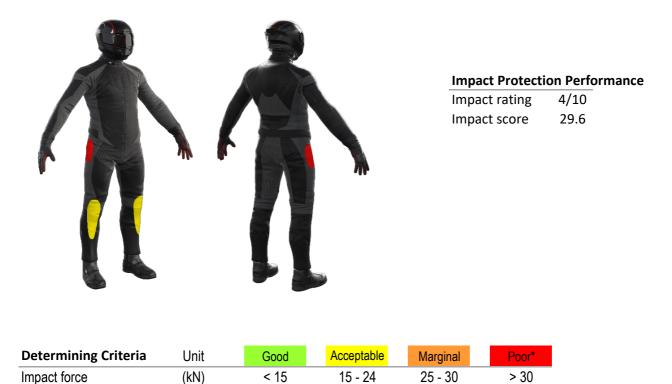
Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Zones 1 & 2	1486	1027	1036	490	1944	1333	1219	G
Zones 3 & 4	1821	922	1375	951	766	1016	1142	G



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



* 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		Нір
Average force (kN)	14.7	G	31.7 P
Maximum force (kN)	18.2	Α	33.3 P
Coverage of Zone 1 area	120%		110%
Coverage of Zone after displacement	60%		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	Knee			Нір		
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	13.3	16.0	18.2	32.2	30.4	31.3
Impact Protector 2	14.8	14.5	13.4	32.3	32.4	31.0
Impact Protector 3	14.3	13.5	14.1	32.4	33.3	29.7



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 I	With	water-resista	istant liner	
Breathability rating	**	Breat	hability rating	*
Breathability score	0.307	Breat	hability score	0.203
Moisture Vapour Resis	stance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liner	S	47.2	45.3	46.3
With water-resistant line	r	96.3	79.0	87.7
Thermal Resistance - I	R _{ct} (K.m²/W)	1	2	Average
Without removable liner	S	0.235	0.239	0.237
With water-resistant line	r	0.297	0.296	0.296

Water spray and rain resistance

This pants are 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 absorbe	ed by garment	Water absorbed by underwear		
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)	
Pants 1	450	26%	29	12%	
Average	450	26%	29	12%	

Location of wetting

There was minor wetting to the cotton underwear present at the waistband for the pair of pants tested.

Rev'lt
Sand 3
Pants - Textile
13 January 2021
AMCAF, Deakin University
P20T04
April 2021
20 April 2021