



This MotoCAP safety rating applies to:

Brand Rev'It

Model Ignitions 3 Ladies
Type Pants - Leather
Date purchased 8 July 2020

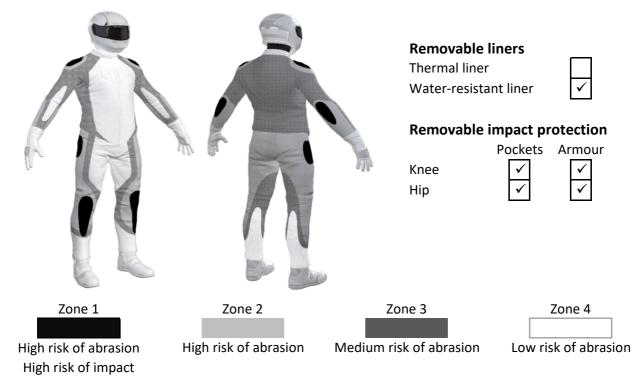
Sizes tested 54
Test garment gender Female
Style All Purpose
RRP \$629.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	**	38.0
Abrasion	4/10	3.31
Burst	10/10	1212
Impact	4/10	31.3
MotoCAP Breathability Rating	**	0.318
Moisture Vapour Resistance	-	36.5
Thermal Resistance	-	0.193
Water resistance	8/10	4.5

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. Mesh panels are located in the front and backs of the legs to allow airflow movement through the garment. 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 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	4/10
Abrasion score	3.31

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)

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Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	4.13	4.76	3.84	3.40	3.99	5.25	4.23	Α
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	40%	4.13	4.76	3.84	3.40	3.99	5.25	4.23	G
Material B	60%	0.49	0.44	0.91	0.64	0.49	0.74	0.62	Р
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	30%	4.13	4.76	3.84	3.40	3.99	5.25	4.23	G
Material B	70%	0.49	0.44	0.91	0.64	0.49	0.74	0.62	М

Details of materials used in jacket

Material A	Leather shell with mesh inner liner
Material B	Mesh 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	1212

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	1417	1845	733	697	1507	967.3	1194	G
Zones 3 & 4	1639	1503	1489	1125	776	1169	1283	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.



Impact Protection Performance
Impact rating 4/10
Impact score 31.3

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)	16.7	A	31.6 P
Maximum force (kN)	21.7	Α	32.7 P
Coverage of Zone 1 area	120%	<u> </u>	120%
Coverage of Zone after displacement	70%		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			Hip		
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	13.8	15.6	20.4	31.9	32.1	29.6
Impact Protector 2	14.4	14.4	21.7	30.6	32.4	30.6
Impact Protector 3	14.5	14.1	21.4	32.3	32.7	31.9



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 li	With	water-resista	ant liner	
Breathability rating	**	Breat	hability rating	*
Breathability score	0.318	Breat	0.257	
Moisture Vapour Resis	tance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liners	3	37.0	36.0	36.5
With water-resistant liner	-	65.0	60.6	62.8
Thermal Resistance - R	R _{ct} (K.m²/W)	1	2	Average
Without removable liners	3	0.191	0.196	0.193
With water-resistant lines		0.288	0.250	0.269

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 absorbed by garment		Water absorbed by underwear	
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)
Pants 1	332	17%	11	4%
Pants 2	488	25%	12	5%
Average	410	21%	11	5%

Location of wetting

There was no visible wetting to the cotton underwear for either pants tested.

Ass	essment	Detai	ls.
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Date purchased 8 July 2020

Tested by AMCAF, Deakin University

Garment test reference P19L07

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