

MOTOCAP

This MotoCAP safety rating applies to:

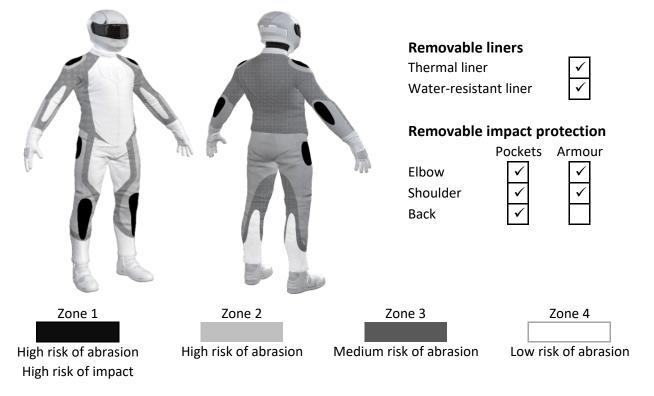
Brand	Rev'lt
Model	Ignition 3
Туре	Jacket - Leather
Date purchased	17 May 2021
Sizes tested	54 and 56
Test garment gender	Male
Style	All Purpose
RRP	\$769.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	****	60.4
Abrasion	8/10	5.83
Burst	10/10	1556
Impact	7/10	52.1
MotoCAP Breathability Rating	**	0.336
Moisture Vapour Resistance	-	44.9
Thermal Resistance	-	0.251
Water resistance	1/10	46.5

This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided for an aftermarket back protector. Mesh panels are located in the arms, chest and back to allow airflow movement through the garment. 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

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	ce Performance
Abrasion rating	8/10

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Abrasion score	5.83

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.

Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	8.32	6.63	7.32	11.39	5.49	9.34	8.08 (
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	30%	10.00	10.00	10.00	10.00			10.00 (
Material C	70%	0.70	1.14	0.45	0.67	0.70	0.69	0.72
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material C	100%	0.70	1.14	0.45	0.67	0.70	0.69	0.72

Details of materials used in jacket

Material A	Leather shell with mesh inner liner
Material B	Leather shell, foam layer, fabric layer and mesh inner liner
Material C	Mesh 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	1556			

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.

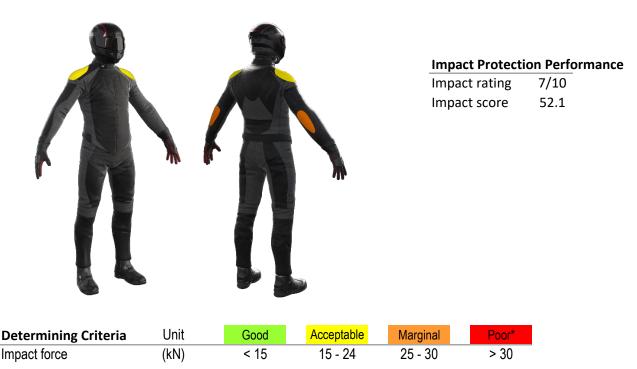
Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	_
Zones 1 & 2	1627	1948	1472	1953	1642	1366	1668	G
Zones 3 & 4	1193	967	1287	1254	755	1195	1109	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.



* 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)	18.0	A	16.2 A
Maximum force (kN)	27.8	Μ	21.0 A
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	Shoulder			
Strike location	Centre	Mid	Edge	Centre	Mid	Edge		
Impact Protector 1	14.5	16.0	27.8	13.9	16.2	21.0		
Impact Protector 2	14.3	17.1	20.0	13.5	15.6	17.4		
Impact Protector 3	15.7	18.0	18.3	15.5	16.5	16.7		



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		With water-resistant liner		
Breathability rating	**	Breat	hability rating	*
Breathability score	0.336	Breat	hability score	0.216
Moisture Vapour Resis	stance - R _{et} (kPa.m ² /W)	1	2	Average
Without removable liners	S	48.7	41.0	44.9
With water-resistant line	r	82.5	86.3	84.4
Thermal Resistance - R _{ct} (K.m ² /W)		1	2	Average
Without removable liners	S	0.253	0.249	0.251
With water-resistant line	r	0.294	0.315	0.304

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 (%)
Jacket 1	521	17%	169	58%
Jacket 2	2014	67%	99	35%
Average	1268	42%	134	46%

Location of wetting:

There was major wetting to the cotton underwear present at the neck and chest for one jacket and at the cuffs of the sleeves of the other jacket tested.

As	sessment Details.	
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Brand	Revit
Model	Ignition 3
Туре	Jacket - Leather
Date purchased	17 May 2021
Tested by	AMCAF, Deakin University
Garment test reference	J20L21
Rating first published	October 2021
Rating updated	11 October 2021