

MOTOCAP

This MotoCAP safety rating applies to:

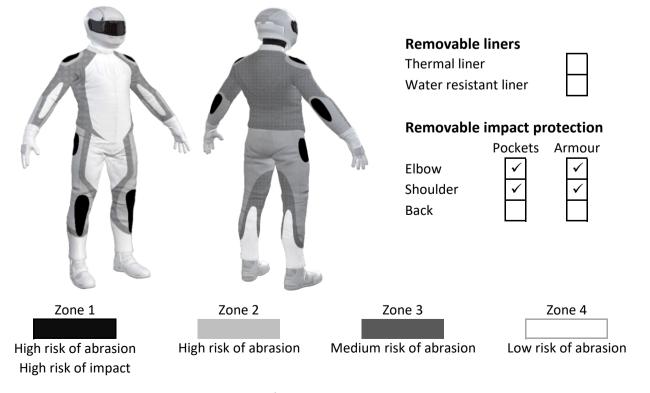
Brand	Rev'lt
Model	Component H2O
Туре	Jacket - Textile
Date purchased	28 July 2022
Sizes tested	L and XL
Test garment gender	Male
Style	All Purpose
RRP	\$648.95

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	16.6
Abrasion	1/10	0.32
Burst	7/10	773
Impact	3/10	24.2
MotoCAP Breathability Rating	7	0.100
Moisture Vapour Resistance	-	121.1
Thermal Resistance	-	0.203
Water resistance	2/10	23.6

This garment is fitted with impact protectors for the elbows and shoulders. Replacing the elbow and shoulder armour with higher performing impact protectors would improve the protection levels of this garment. There are zipped vents in the upper arms, lower arms and sides of the 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 can be opened.

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	e Performance
Abrasion rating	1/10

		-, -•
Abrasion	score	0.32

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.

Zone 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.27	0.27	0.37	0.44	0.41	0.37	0.35
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	L Average
Material A	30%	0.27	0.27	0.37	0.44	0.41	0.37	0.35
Material B	70%	0.21	0.28	0.29	0.24	0.25	0.29	0.26
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.21	0.28	0.29	0.24	0.25	0.29	0.26

Abrasion time for each test (seconds)

Details of materials used in jacket

Material A	Heavy woven fabric shell with laminated water-resistant layer
Material B	Woven fabric shell with laminated water-resistant layer



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	7/10			
Burst score	773			

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	996	1255	831	605	836	653	863	Α
Zones 3 & 4	308	351	450	506	566	318	416	Ρ



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.



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)	27.1 M	27.1 M
Maximum force (kN)	30.2 P	30.2 P
Coverage of Zone 1 area	90%	110%
Coverage of Zone after displacement	60%	90%

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	30.2	27.2	25.7	30.2	27.2	25.7
Impact Protector 2	26.4	25.7	29.3	26.4	25.7	29.3
Impact Protector 3	26.0	27.0	26.8	26.0	27.0	26.8



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 I	iners	With water-resistant liner		
Breathability rating	*	Breat	thability rating	N/A
Breathability score	0.100	Breat	thability score	N/A
Moisture Vapour Resis	stance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liner	S	124.6	117.6	121.1
With water-resistant line	r	N/A	N/A	N/A
Thermal Resistance - R _{ct} (K.m ² /W)		1	2	Average
Without removable liner	S	0.191	0.215	0.203
With water-resistant line	r	N/A	N/A	N/A

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 absorbe	ed by garment	Water absorbed by underwear		
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)	
Jacket 1	112	12%	29	10%	
Jacket 2	100	11%	69	23%	
Average	98	10%	69	24%	

Location of wetting

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

Assessment Details.	
Brand	Rev'lt
Model	Component H2O
Туре	Jacket - Textile
Date purchased	28 July 2022
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	J21T08
Rating first published	October 2022
Rating updated	28 October 2022