



This MotoCAP safety rating applies to:

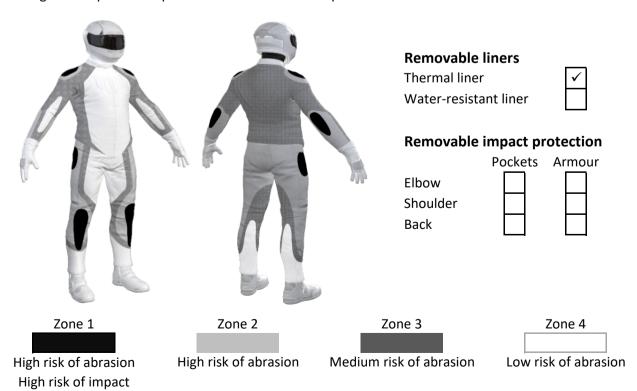
Johnny Reb **Brand** Model **Botany Vintage** Type Jacket - Leather Date purchased 16 May 2022 Sizes tested L and XL Male Test garment gender Style All Purpose RRP \$399.95

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	24.5
Abrasion	4/10	3.25
Burst	8/10	823
Impact	1/10	0.0
MotoCAP Breathability Rating	**	0.324
Moisture Vapour Resistance	-	53.6
Thermal Resistance	-	0.289
Water resistance	N/A	N/A

There are no pockets provided at the shoulders, elbows or back for fitting aftermarket impact protectors. Perforated leather is located in the arms, sides, chest and back to allow airflow movement through the garment. Breathability was measured without the removable thermal liner installed.

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	4/10
Abrasion score	3.25

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	50%	11.60	6.16	6.17	4.93	4.60	5.59	6.51	G
Material B	50%	3.52	3.18	2.57	2.91	2.56	2.47	2.87	М
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	70%	3.52	3.18	2.57	2.91	2.56	2.47	2.87	G
Material C	30%	1.51	2.74	1.34	2.71	0.97	2.88	2.02	Α
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	80%	3.52	3.18	2.57	2.91	2.56	2.47	2.87	G
Material C	20%	1.51	2.74	1.34	2.71	0.97	2.88	2.02	G

Details of materials used in jacket

Material A	Leather shell, foam layer and mesh inner liner
Material B	Leather shell with mesh inner liner
Material C	Perforated leather 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	8/10				
Rurst score	823				

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	616	805	1310	799	860	630	837	Α
Zones 3 & 4	560	751	733	1064	781	735	771	M



Impact Protection

This jacket was not tested for impact protection as impact protectors were not provided with the garment. 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 1/10

Impact score

0.0

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

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)	Р	Р
Maximum force (kN)	Р	P
Coverage of Zone 1 area	0%	0%
Coverage of Zone after displacement	0%	0%

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	No impact pro	tector present	Shoulder	No impact pro	tector present
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1						
Impact Protector 2						
Impact Protector 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 lin	With	water-resista	ant liner		
Breathability rating	**	Breat	thability rating	N/A	
Breathability score	0.324	Breathability score		N/A	
Moisture Vapour Resist	ance - R _{et} (kPa.m²/W)	1	2	Average	
Without removable liners		55.9	51.2	53.6	
With water-resistant liner		N/A	N/A	N/A	
Thermal Resistance - R	_{ct} (K.m²/W)	1	2	Average	
Without removable liners		0.287	0.292	0.289	
With water-resistant liner		N/A	N/A	N/A	

Water spray and rain resistance

This jacket has not been advertised as water-resistant so has not been tested for water spray and rain resistance.

Assessment Details.

Brand Johnny Reb
Model Botany Vintage
Type Jacket - Leather
Date purchased 16 May 2022

Tested by AMCAF, Deakin University Report approved by MotoCAP Chief Scientist

Garment test reference J21L03
Rating first published August 2022
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