


This MotoCAP safety rating applies to:

Brand: Rjays
Model: Calibre
Type: Jacket - Leather
Date purchased: 18 July 2018
Sizes tested: L and 2XL
Gender: M
Style: Cruiser
Test code: J18L04

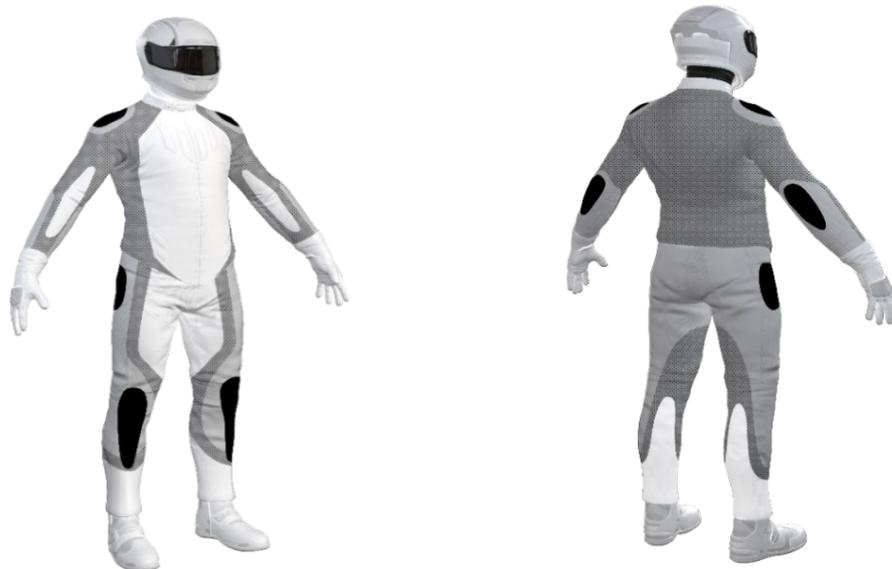
Test Results Summary:

	Rating	Result
MotoCAP Protection Rating	★★★★★	66.9
Abrasion	10/10	7.87
Burst	10/10	1587
Impact	5/10	39.0
MotoCAP Comfort Rating	★	0.177
Moisture Vapour Resistance		100.5
Thermal Resistance		0.297
Water Resistance	N/A	

This garment is fitted with impact protectors for the elbows, shoulders and back. There are ventilation ports for air flow control within the jacket on the front of both upper arms, between the wrist and elbow on the inside of both lower arms and vertically on both sides of the back to aid cooling in hot weather.

Jacket and Pants - Crash Impact Risk Zones

This diagram is a pictorial representation of the crash impact risk Zones.


Zone 1


High risk of abrasion
High risk of impact

Zone 2


High risk of abrasion

Zone 3


Medium risk of abrasion

Zone 4


Low risk of abrasion

Abrasion Resistance

The garment was tested for abrasion resistance following the MotoCAP test protocols. 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.

Details of materials used in garment:

Material A: Single layer of leather outer, foam spacer and fabric inner liner
 Material B: Single layer of leather outer and perforated foam inner liner
 Material C: Single layer of leather outer and mesh inner liner

Zone	Coverage (%)	Abrasion time for each test (s)						Average (s)	
		1	2	3	4	5	6		
Zone 1 and 2 areas (High abrasion risk)									
Material A	100%	7.36	10.00	10.00	10.00	10.00	10.00	9.56	G
	0%								
Zone 3 area (Medium abrasion risk)									
Material B	100%	6.13	4.71	4.22	7.21	3.83	5.27	5.27	G
	0%								
Zone 4 area (Low abrasion risk)									
Material C	100%	6.88	4.42	4.28	7.65	4.06	5.59	5.48	G
	0%								

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 above.



Determining Criteria		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

Burst Strength

The garment's burst strength was tested following the MotoCAP test protocols. The table below shows the burst pressure in kilopascals (kPA) for each sample tested by Zone and the average result for each Zone.

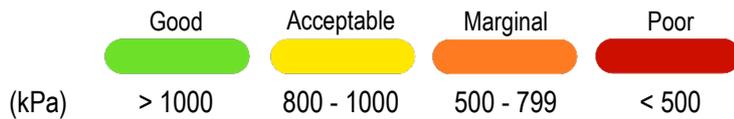
Burst pressure (kPA)

Area	1	2	3	4	5	Average	
Zones 1 & 2	1922	1422	1672	1849	1949	1763	G
Zone EZ	1597	1344	1224	1342	1732	1448	G
Zones 3 & 4	1949	1717	1273	1317	1314	1514	G

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 above.



Determining Criteria
Burst strength



Impact Protection

The garment was tested for impact protection and coverage following the MotoCAP test protocols. The table below shows the test results for each strike on each impact protector in kilonewton (kN) and their area of coverage in percentage (%) within the Zone.

Impact protector type	Elbow		Shoulder	
Average force	20.7	A	19.8	A
Maximum force	28.0	M	25.3	M
Coverage of zone 1 area	95%		120%	
Coverage of zone after displacement	95%		100%	

Individual test results

Impact force (kN)	Elbow			Shoulder		
	A	B	C	A	B	C
Impact Protector 1	16.3	19.1	19.0	15.3	23.5	25.3
Impact Protector 2	18.5	20.1	27.2	15.9	21.4	19.3
Impact Protector 3	16.0	22.4	28.0	14.4	19.6	23.5

The diagram below is a visual indication of the likely impact performance of each impact protector calculated from the data in the table above.



Determining Criteria	Burst strength (kN)			
	Good	Acceptable	Marginal	Poor*
Burst strength (kN)	< 15	15 - 24	25 - 30	> 30

* Poor may also indicate that no impact protector, or impact protector pocket is present in the garment

Thermal comfort

The garment was tested for thermal comfort following the MotoCAP test protocols. The table below shows the moisture vapour resistance and the thermal resistance values obtained.

	1	2	Average
Moisture Vapour Resistance - R_{et} (kPam ² /W)	100.3	100.7	100.5
	1	2	Average
Thermal Resistance - R_{ct} (Km ² /W)	0.295	0.298	0.297

Water spray and rain resistance

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

Assessment Details.

Brand	Rjays
Model	Calibre
Type	Jacket - Leather
Date purchased	18 July 2018
Tested by	AMCAF, Deakin University
Garment test reference	J18L04
Rating first published	October 2018
Rating updated	1 October 2021