


This MotoCAP safety rating applies to:

Brand: Rjays
Model: Dune
Type: Jacket - Textile
Date purchased: 11 August 2018
Sizes tested: XXL
Gender: M & F
Style: Tourer
Test code: J18T08

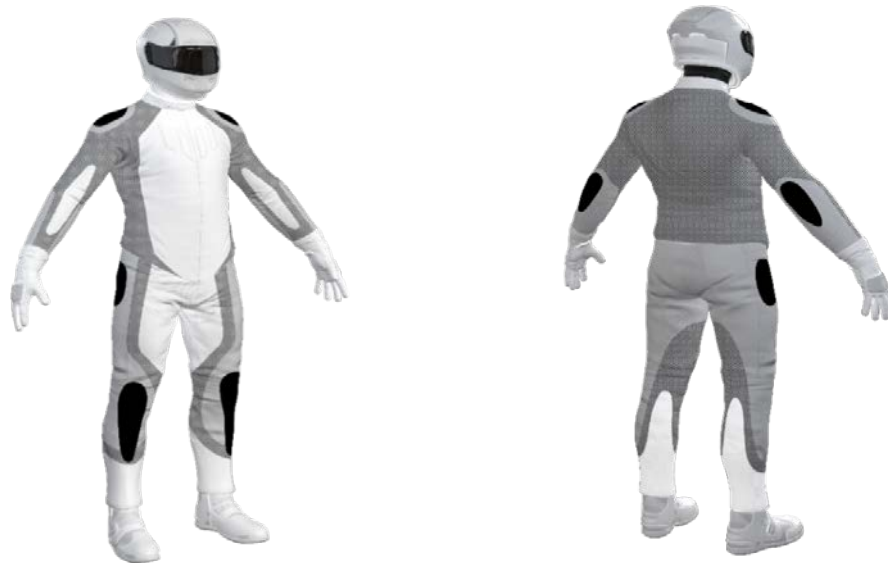
Test Results Summary:

	Rating	Score
MotoCAP Protection Rating	★	21.8
Abrasion	1/10	-0.40
Burst	10/10	1141
Impact	6/10	41.4
MotoCAP Comfort Rating	↘	0.200
Moisture Vapour Resistance		94.4
Thermal Resistance		0.314
Water resistance	↘	57.6

This garment is fitted with impact protectors for the elbows, shoulders and back. Five ventilation ports are provided on the inner arms from elbow to wrist, the torso from underarms to waist and across the back to allow control of airflow through the jacket to aid cooling in hot weather. Comfort measurements were conducted with the vents closed. The thermal comfort of this product would be better in dry conditions with the vents open.

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:	Woven Cordura shell with water resistant layer and cushion liner
Material B:	Woven Cordura shell with water resistant layer and mesh liner
Material C:	Cordura stretch shell with water resistant layer and mesh liner

Zone	Coverage (%)	Abrasion time for each test (seconds)						Average (seconds)	
		1	2	3	4	5	6		
Zone 1 and 2 areas (High abrasion risk)									
Material A	30%	2.74	2.18	2.32	2.35	2.01	2.36	2.33	M
Material B	70%	0.32	0.47	0.35	0.66	0.48	0.38	0.44	P
Zone 3 area (Medium abrasion risk)									
Material C	20%	4.96	7.28	5.78	3.97	3.18	3.75	4.82	G
Material B	80%	0.32	0.47	0.35	0.66	0.48	0.38	0.44	P
Zone 4 area (Low abrasion risk)									
Material B	100%	0.32	0.47	0.35	0.66	0.48	0.38	0.44	M

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. The colour coding is based on the worst performing material in each zone.



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	1496	1506	1579	859	1206	1329	G
Zone EZ	1509	1057	1204	691	1096	1111	G
Zones 3 & 4	768	768	924	742	912	823	A

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

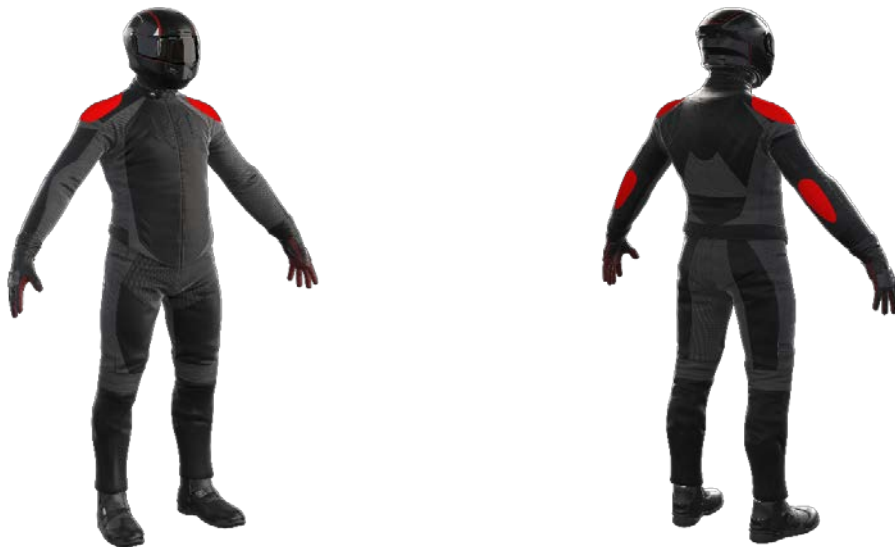
The garment was tested for impact protection and coverage following the MotoCAP test protocols. The table below shows the test results for each strike on each impact protector in kilonewton (kN) and their area of coverage as a proportion (%) of the Zone.

Impact protector type	Elbow		Shoulder	
Average force (kN)	21.5	A	22.2	A
Maximum force (kN)	31.3	P	30.3	P
Coverage of zone 1 area	150%		110%	
Coverage of zone after displacement	110%		90%	

Individual test results

Impact force (kN)	Elbow			Shoulder		
	A	B	C	A	B	C
Impact Protector 1	14.7	18.4	31.3	18.6	24.1	27.1
Impact Protector 2	17.2	23.8	28.1	12.9	16.3	26.4
Impact Protector 3	13.8	20.3	26.1	23.4	20.3	30.3

The diagram below is a visual indication of the likely impact performance of each impact protector calculated from the data in the table above. The colour coding is based on the worst score for force transmitted (average or maximum) in each impact zone.



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

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)	96.8	92.1	94.4
	1	2	Average
Thermal Resistance - R_{ct} (Km ² /W)	0.319	0.309	0.314

Water spray and rain resistance

This garment 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 proportion (%) increased weight (g) of the garment and undergarments due to water absorption.

	Water absorbed by garment		Water absorbed by underwear	
	Mass (g)	Percentage (%)	Mass (g)	Percentage (%)
Test 1	549.8	35%	191.3	69%
Test 2	543.7	34%	126.1	46%
Average	546.8	35%	158.7	58%

Location of wetting:

Visible wetting to the cotton undergarment worn under the motorcycle water resistant jacket was present on the neck, chest and the cuffs of the sleeves.