



This MotoCAP safety rating applies to:

Brand MotoDry

Model RallyE Adventure
Type Jacket - Textile
Date purchased 14 October 2020

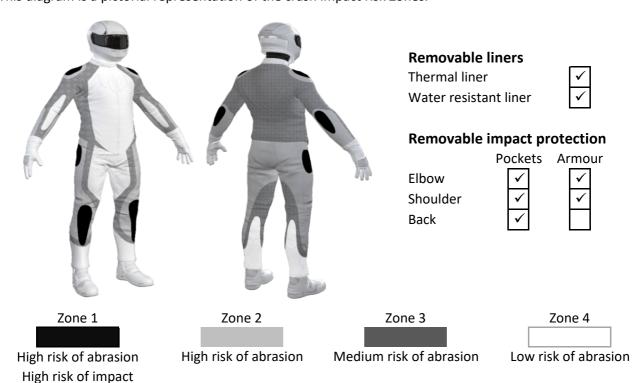
Sizes tested XL and 2XL
Test garment gender Male
Style Tourer
RRP \$299.95

Test Results Summary	Rating	Score		
MotoCAP Protection Rating	*	20.6		
Abrasion	1/10	0.24		
Burst	10/10	1175		
Impact	4/10	25.4		
MotoCAP Breathability Rating	*	0.276		
Moisture Vapour Resistance	-	66.6		
Thermal Resistance	-	0.306		
Water resistance	1/10	51.8		

This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided for an aftermarket back protector. There are zipped vents in the chest, arms and 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. 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 improved to 2 stars.

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	1/10
Abrasion score	0.24

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.

Abrasion time for each test (seconds)

, abradion anno	101 04011 1001 (001	,onao,						
Zone 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.20	0.23	0.20	0.23	0.28	0.28	0.24
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.20	0.23	0.20	0.23	0.28	0.28	0.24
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.20	0.23	0.20	0.23	0.28	0.28	0.24

Details of materials used in jacket

Material A Woven 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	1175

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	1120	1448	808	1607	1613	981.5	1263	G
Zones 3 & 4	843	852	650	673	1008	913	823	Α



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 maximium force for each impact zone. Areas shaded black are not considered for impact protection ratings.



Impact Protection Performance
Impact rating 4/10

25.4

Impact score

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)	27.9	M	26.3 M
Maximum force (kN)	37.3	Р	28.6 M
Coverage of Zone 1 area	140%	<u> </u>	120%
Coverage of Zone after displacement	80%		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		
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	37.3	28.3	29.1	23.2	26.0	25.8
Impact Protector 2	23.8	21.7	29.1	24.9	28.6	27.6
Impact Protector 3	24.5	25.8	31.0	26.9	25.5	28.5



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-resistant liner			
Breathability rating	Breat	hability rating	**	
Breathability score	0.276	Breathability score		0.300
Moisture Vapour Resist	ance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liners		68.4	64.9	66.6
With water-resistant liner		69.1	67.1	68.1
Thermal Resistance - R	_{ct} (K.m²/W)	1	2	Average
Without removable liners		0.301	0.311	0.306
With water-resistant liner		0.335	0.346	0.341

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	815	42%	156	54%	
Jacket 2	768	40%	145	50%	
Average	791	41%	151	52%	

Location of wetting

Visible wetting to the cotton underwear was present at the chest and cuffs of the sleves of both jackets tested.

Assessment Details.	
Brand	MotoDry
Model	RallyE Adventure
Туре	Jacket - Textile
Date purchased	14 October 2020
Tested by	AMCAF, Deakin University
Garment test reference	J19T59
Rating first published	January 2021
Rating updated	5 January 2021