



### This MotoCAP safety rating applies to:

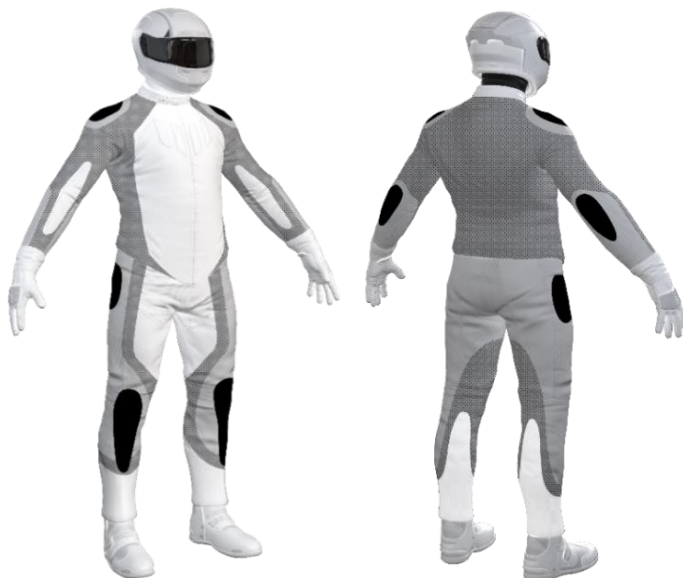
Brand	Dare Rider
Model	Ultimate 2
Type	Pants - Textile
Date purchased	23 June 2025
Sizes tested	XL and 2XL
Test garment gender	Male
Style	Adventure
RRP	\$259.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	★	25.7
Abrasion	1/10	0.32
Burst	10/10	1390
Impact	5/10	33.9
MotoCAP Breathability Rating	✱	0.107
Moisture Vapour Resistance	-	110.5
Thermal Resistance	-	0.197
Water resistance	10/10	0.5

This garment is fitted with impact protectors for the knees and hips. Replacing the knee and hip armour with higher performing impact protectors would improve the protection levels of this garment. There are zipped vents in the back and velcro in the front to allow controlled airflow movement through the garment. 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 reduced but remained within half a star.

### 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

#### Removable liners

Thermal liner	<input checked="" type="checkbox"/>
Water-resistant liner	<input checked="" type="checkbox"/>

#### Removable impact protection

	Pockets	Armour
Knee	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hip	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

## Abrasion Resistance

These pants were 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	0.32

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	60%	0.81	0.89	0.55	0.72	0.99		0.79	P
Material B	40%	0.34	0.33	0.35	0.46	0.35	0.32	0.36	P
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	0.34	0.33	0.35	0.46	0.35	0.32	0.36	P
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	0.34	0.33	0.35	0.46	0.35	0.32	0.36	P

### Details of materials used in pant

Material A	Laminated woven fabric shell over woven fabric shell with mesh inner liner
Material B	Woven fabric shell with mesh inner liner

## Burst Strength

These pants were 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	1390

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	1780	1219	1290	1815	1498	1122	1454	G
Zones 3 & 4	1207	1456	1064	1199	460	1421	1134	G

## Impact Protection

These pants were 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.



### Impact Protection Performance

Impact rating	5/10
Impact score	33.9

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	Knee		Hip	
Average force (kN)	26.1	M	27.2	M
Maximum force (kN)	28.4	M	30.6	P
Coverage of Zone 1 area	100%		150%	
Coverage of Zone after displacement	90%		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	Knee			Hip		
	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	26.4	25.4	28.4	24.6	26.7	30.6
Impact Protector 2	24.0	26.5	26.7	26.2	26.7	28.0
Impact Protector 3	24.8	26.6	26.2	26.3	26.7	28.9

## Breathability

These pants were tested for breathability following the MotoCAP test protocols. The table below shows the moisture vapour resistance and the thermal resistance values obtained.

### Without removable liners

Breathability rating	↓
Breathability score	0.107

### With water-resistant liner

Breathability rating	↓
Breathability score	0.096

### Moisture Vapour Resistance - $R_{et}$ (kPa.m<sup>2</sup>/W)

	1	2	Average
Without removable liners	115.1	105.8	110.5
With water-resistant liner	228.9	206.4	217.7

### Thermal Resistance - $R_{ct}$ (K.m<sup>2</sup>/W)

	1	2	Average
Without removable liners	0.197	0.198	0.197
With water-resistant liner	0.348	0.345	0.347

## Water spray and rain resistance

These pants are advertised as water-resistant, and so have 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 absorbed by garment		Water absorbed by underwear		Water Resistance Performance	
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)		
Pants 1	345	23%	2	1%	Water rating	10/10
Pants 2	580	41%	1	0%	Water score	0.49
<b>Average</b>	462	32%	1	0%		

## Location of wetting

There was no visible wetting to the cotton underwear for either pants tested.

## Assessment Details.

Brand	Dare Rider
Model	Ultimate 2
Type	Pants - Textile
Date purchased	23 June 2025
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	P25T16
Rating first published	September 2025
Rating updated	8 September 2025