This MotoCAP safety rating applies to:

Brand:	DriRider
Model:	Air-ride 4
Type:	Jacket - Textile
Date purchased:	11 August 2018
Sizes tested:	XXL
Gender:	M & F
Style:	Cruiser
Test code:	J18T02

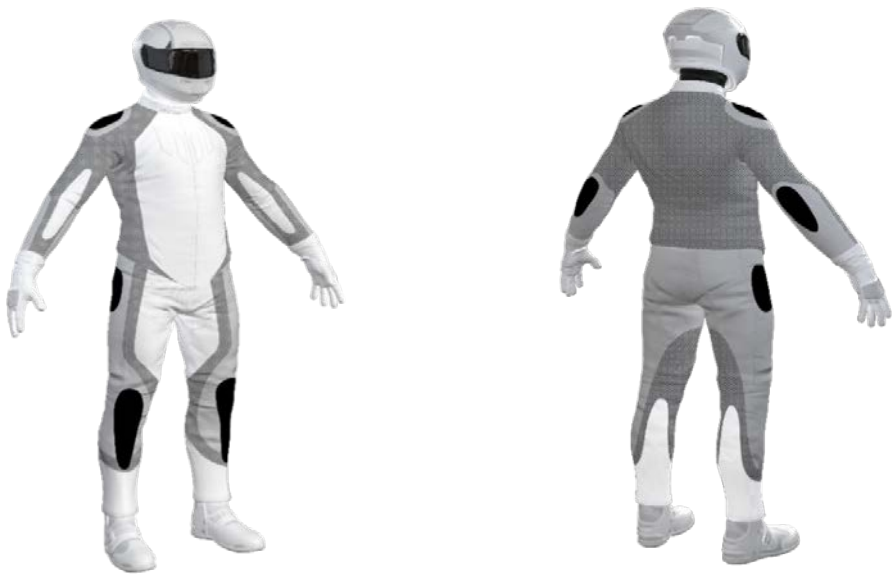
Test Results Summary:

	Rating	Score
MotoCAP Protection Rating	★	22.7
Abrasion	1/10	-0.80
Burst	10/10	1420
Impact	6/10	41.6
MotoCAP Comfort Rating	★★	0.383
Moisture Vapour Resistance		30.2
Thermal Resistance		0.193
Water resistance		126

This garment is fitted with impact protectors for the elbows and shoulders, with a pocket provided for the addition of an aftermarket back protector. There is mesh fabric in the chest, inner arms and central back area to allow airflow through the jacket to aid cooling in hot weather. Comfort measurements were conducted with the removable waterproof membrane installed. The thermal comfort of this product would be better in dry conditions without the waterproof liner installed.

Jacket and Pants - Crash Impact Risk Zones

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



Zone 1	Zone 2	Zone 3	Zone 4
High risk of abrasion High risk of impact	High risk of abrasion	Medium risk of abrasion	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:	Stretch shell with mesh liner and removable water resistant layer with mesh liner.
Material B:	Woven polyester shell with mesh and removable water resistant layer with mesh liner.
Material C:	Mesh polyester shell and removable water resistant layer with mesh liner.

Zone	Coverage (%)	Abrasion time for each test (seconds) 1	2	3	4	5	6	Average (seconds)	
Zone 1 and 2 areas (High abrasion risk)									
Material A	20%	1.89	-	4.84	1.74	4.34	3.93	3.35	A
Material B	80%	1.46	0.58	0.69	1.43	0.55	0.37	0.85	P
Zone 3 area (Medium abrasion risk)									
Material B	50%	1.46	0.58	0.69	1.43	0.55	0.37	0.85	M
Material C	50%	0.84	0.36	0.50	0.28	0.61	0.72	0.55	P
Zone 4 area (Low abrasion risk)									
Material B	50%	1.46	0.58	0.69	1.43	0.55	0.37	0.85	M
Material C	50%	0.84	0.36	0.50	0.28	0.61	0.72	0.55	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	1707	1258	1837	1173	1055	1406	G
Zone EZ	1498	1386	1483	1313	1595	1455	G
Zones 3 & 4	1916	1352	1202	1044	1396	1382	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		Good	Acceptable	Marginal	Poor
Burst strength	(kPa)	> 1000	800 - 1000	500 - 799	< 500

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)	20.4	A	19.7	A
Maximum force (kN)	21.7	A	21.4	A
Coverage of zone 1 area	95%		100%	
Coverage of zone after displacement	95%		100%	

Individual test results

Impact force (kN)	Elbow			Shoulder		
Strike location	A	B	C	A	B	C
Impact Protector 1	19.2	21.1	21.0	17.2	20.3	21.4
Impact Protector 2	18.9	20.7	21.7	18.0	19.8	21.4
Impact Protector 3	0.0	0.0	0.0	0.0	0.0	0.0

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		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

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} ($kPam^2/W$)	32.2	28.2	30.2

	1	2	Average
Thermal Resistance - R_{ct} (Km^2/W)	0.191	0.194	0.193

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	623.4	41%	352.5	126%
Test 2				
Average	623.4	41%	352.5	126%

Location of wetting:

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