This MotoCAP safety rating applies to:

Brand:	DriRider
Model:	Nordic 4
Type:	Jacket - Textile
Date purchased:	29 October 2018
Sizes tested:	XL
Gender:	M
Style:	All Purpose
Test code:	J18T17

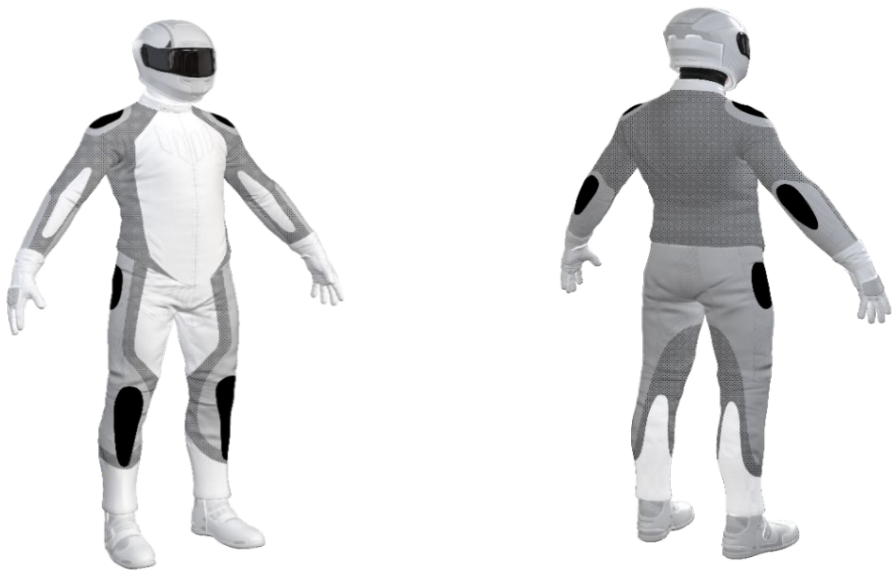
Test Results Summary:

	Rating	Score
MotoCAP Protection Rating	★★★	44.9
Abrasion	6/10	4.75
Burst	10/10	1619
Impact	2/10	16.6
MotoCAP Comfort Rating	★	0.165
Moisture Vapour Resistance		103.2
Thermal Resistance		0.284
Water resistance	1/10	57

This water resistant jacket is fitted with impact protectors for the elbows and shoulders, with a pocket provided for an aftermarket back protector. Closable mesh panel are located on the upper chest, in the inner lower arms and sides of the back to allow airflow cooling in hot weather. The thermal comfort measurements undertaken have not evaluated the performance of venting provided in this garment. The thermal comfort of this product may be better when the vents can be opened.

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 in accordance with 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:	Leather shell, water resistant layer and mesh inner liner
Material B:	Woven polyester fabric shell, water resistant layer and mesh inner liner
Material C:	Stretch panel shell, water resistant layer and mesh inner 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	90%	10.00	8.21	10.00	10.00	10.00	-	9.64	G
Material B	10%	0.61	0.49	0.46	0.61	0.67	0.50	0.56	P
Zone 3 area (Medium abrasion risk)									
Material C	30%	4.79	3.86	2.65	2.96	-	-	3.56	G
Material B	70%	0.61	0.49	0.46	0.61	0.67	0.50	0.56	P
Zone 4 area (Low abrasion risk)									
Material B	100%	0.61	0.49	0.46	0.61	0.67	0.50	0.56	M

Abrasion times are capped at a maximum of 10.00s.

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 in accordance with 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	1938	1940	1785	1867	1936	1893	G
Zone EZ	1462	1253	1849	1526	1658	1550	G
Zones 3 & 4	1140	1360	1099	1248	1195	1208	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 in accordance with 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)	31.9	P	33.2	P
Maximum force (kN)	33.0	P	35.8	P
Coverage of zone 1 area	95%		110%	
Coverage of zone after displacement	90%		100%	

Individual test results

Impact force (kN)	Elbow			Shoulder		
Strike location	**A**	**B**	**C**	**A**	**B**	**C**
Impact Protector 1	32.6	32.7	31.7	35.8	33.0	33.2
Impact Protector 2	32.8	32.6	29.7	34.6	34.3	33.2
Impact Protector 3	30.1	33.0	32.1	31.3	30.3	33.3

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

Areas shaded black are not considered in the impact protection ratings.

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} ($kPam^2/W$)	104.0	102.3	103.2

	1	2	**Average**
Thermal Resistance - R_{ct} (Km^2/W)	0.295	0.273	0.284

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

	Water absorbed by garment		Water absorbed by underwear	
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)
Jacket 1	490	25%	221	76%
Jacket 2	556	30%	102	37%
Jacket 3	446	24%	158	57%
Average	497	26%	160	57%

Location of wetting:

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

Assessment Details.

Brand	DriRider
Model	Nordic 4
Type	Jacket - Textile
Date purchased	29 October 2018
Tested by	AMCAF, Deakin University
Garment test reference	J18T17
Rating first published	April 2019
Rating updated	1 October 2021