This MotoCAP safety rating applies to:

Brand:	DriRider
Model:	Nordic 3 Airflow
Type:	Jacket - Textile
Date purchased:	11 February 2019
Sizes tested:	L and XL
Gender:	M
Style:	Tourer
Test code:	J19T07

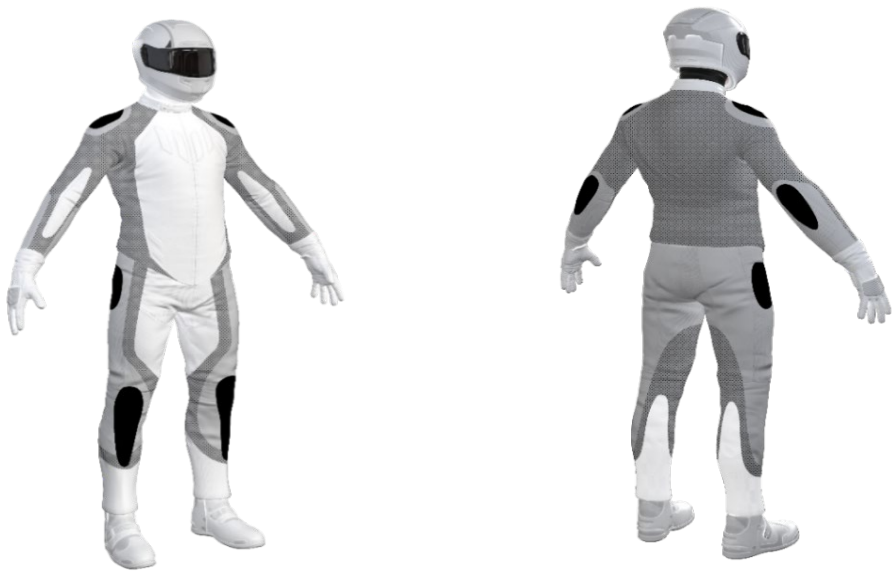
Test Results Summary:

	Rating	Score
MotoCAP Protection Rating	★★	28.9
Abrasion	2/10	1.44
Burst	9/10	993
Impact	5/10	39.3
MotoCAP Comfort Rating	★★	0.295
Moisture Vapour Resistance		41.8
Thermal Resistance		0.206
Water resistance	6/10	8.2

This garment is fitted with impact protectors for the elbows and shoulders. Pockets are provided at the back for aftermarket impact protectors. Mesh panels are located in the arms, chest and upper back to allow airflow cooling in hot weather. This garment was also tested with the water-resistant liner installed, which reduced the comfort rating to 1 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

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 and mesh inner liner
Material B:	Woven fabric shell and mesh inner liner
Material C:	Mesh shell 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%	3.11	2.75	2.23	2.43	3.43	3.49	2.91	M
Material B	10%	0.56	0.30	0.14	0.18	0.53	0.70	0.40	P
Zone 3 area (Medium abrasion risk)									
Material C	80%	0.36	0.37	0.24	0.16	0.21	0.20	0.26	P
Material B	20%	0.56	0.30	0.14	0.18	0.53	0.70	0.40	P
Zone 4 area (Low abrasion risk)									
Material C	70%	0.36	0.37	0.24	0.16	0.21	0.20	0.26	P
Material B	30%	0.56	0.30	0.14	0.18	0.53	0.70	0.40	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	812	604	604	759	588	674	M
Zone EZ	1260	1730	1575	964	1386	1383	G
Zones 3 & 4	890	693	1254	713	723	855	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		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 kilonewtons (kN) and their area of coverage as a proportion (%) of the Zone.

Impact protector type	Elbow		Shoulder	
Average force (kN)	19.7	A	20.3	A
Maximum force (kN)	20.4	A	20.9	A
Coverage of zone 1 area	95%		95%	
Coverage of zone after displacement	80%		95%	

Individual test results

Impact force (kN)	Elbow			Shoulder		
Strike location	**A**	**B**	**C**	**A**	**B**	**C**
Impact Protector 1	20.2	20.4	19.9	20.9	20.6	20.5
Impact Protector 2	19.2	19.3	19.9	20.7	20.4	20.0
Impact Protector 3	20.1	19.5	19.1	20.2	20.0	19.7

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} ($kPam^2/W$)	39.6	44.0	41.8

	1	2	**Average**
Thermal Resistance - R_{ct} (Km^2/W)	0.206	0.205	0.206

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 water absorbed (ml) and the wetting proportion (%) of the garment and undergarments due to water absorption.

	Water absorbed by garment		Water absorbed by underwear	
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)
Garment 1	702	38%	23	8%
Average	702	38%	23	8%

Location of wetting:

Minor visible wetting to the cotton underwear worn under the motorcycle water resistant garment was present at the cuffs of the sleeves and on the chest.

Assessment Details.

Brand	DriRider
Model	Nordic 3 Airflow
Type	Jacket - Textile
Date purchased	11 February 2019
Tested by	AMCAF, Deakin University
Garment test reference	J19T07
Rating first published	July 2019
Rating updated	1 October 2021