



This MotoCAP safety rating applies to:

Brand DriRider

Model Air-Ride 5 Ladies
Type Jacket - Textile
Date purchased 23 February 2021

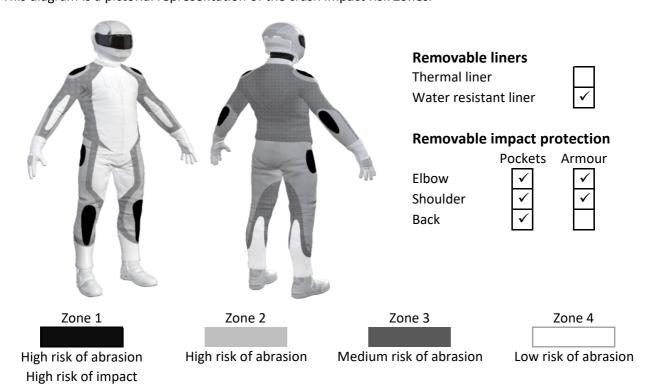
Sizes tested 16 and 18
Test garment gender Female
Style All Purpose
RRP \$219.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	25.0
Abrasion	1/10	0.42
Burst	10/10	1456
Impact	4/10	27.7
MotoCAP Breathability Rating	***	0.457
Moisture Vapour Resistance	-	30.5
Thermal Resistance	-	0.232
Water resistance	1/10	139.4

This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided for an aftermarket back protector. Mesh panels are located in the arms, chest and back to allow airflow movement through the garment. This garment has a removable water-resistant liner. The breathability rating above was achieved with the water-resistant liner removed. When tested with the water-resistant liner installed, the breathability rating reduced but remained within the 3 star range.

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	0.42

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)

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Zone 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	0.45	0.41	0.35	0.49	0.38	0.38	0.41	Р
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	20%	0.62	0.50	0.65	0.39	0.20	0.20	0.43	Р
Material A	80%	0.45	0.41	0.35	0.49	0.38	0.38	0.41	Р
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	80%	0.62	0.50	0.65	0.39	0.20	0.20	0.43	М
Material A	20%	0.45	0.41	0.35	0.49	0.38	0.38	0.41	М

Details of materials used in jacket

Material A	Woven fabric shell with mesh inner liner
Material B	Mesh 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	1456

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	1762	1680	1124	1756	1556	1377	1543	G
Zones 3 & 4	852	951	1181	931	1043	1695	1109	G



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
Impact score 27.7

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)	21.8	A	19.1 A
Maximum force (kN)	30.7	Р	25.0 A
Coverage of Zone 1 area	90%		85%
Coverage of Zone after displacement	90%		85%

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	17.8	19.5	23.8	16.3	19.8	18.0
Impact Protector 2	17.9	21.1	30.7	16.5	17.1	24.8
Impact Protector 3	18.6	21.2	25.9	17.1	17.2	25.0



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 li	With water-resistant liner				
Breathability rating	***	Breat	hability rating	***	
Breathability score	0.457	Breathability score		0.447	
Moisture Vapour Resis	tance - R _{et} (kPa.m²/W)	1	2	Average	
Without removable liners	3	31.3	29.7	30.5	
With water-resistant line	r	50.1	48.0	49.1	
Thermal Resistance - F	R _{ct} (K.m²/W)	1	2	Average	
Without removable liners	3	0.232	0.232	0.232	
With water-resistant line	r	0.365	N/A	0.365	

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 absorbed by garment		Water absorbed by underwear	
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)
Jacket 1	939	59%	365	131%
Jacket 2	940	59%	438	148%
Average	626	59%	268	139%

Location of wetting

There was major wetting to the cotton underwear present at the neck, chest, cuffs of the sleeves and lower back for both jackets tested.

Assessment Details.		
Brand	DriRider	
Model	Air-Ride 5 Ladies	
Туре	Jacket - Textile	
Date purchased	23 February 2021	
Tested by	AMCAF, Deakin University	
Garment test reference	J20T19	
Rating first published	June 2021	
Rating updated	17 June 2021	