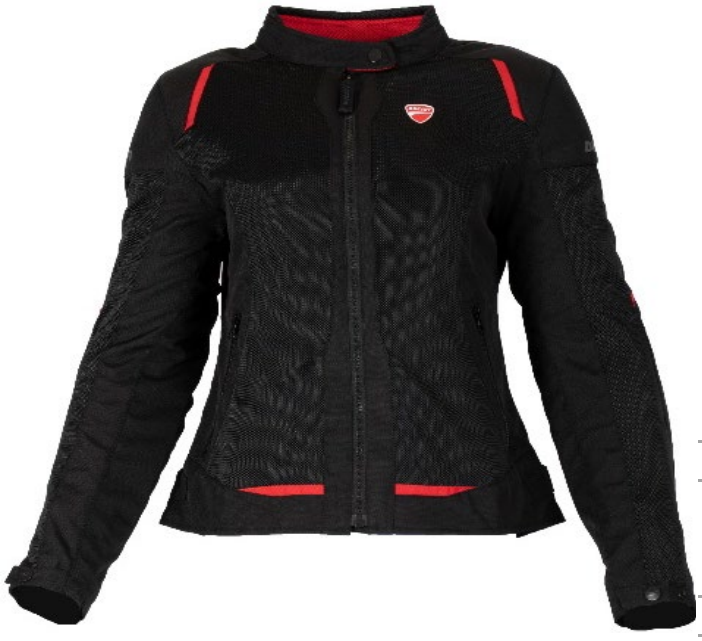


This MotoCAP safety rating applies to:

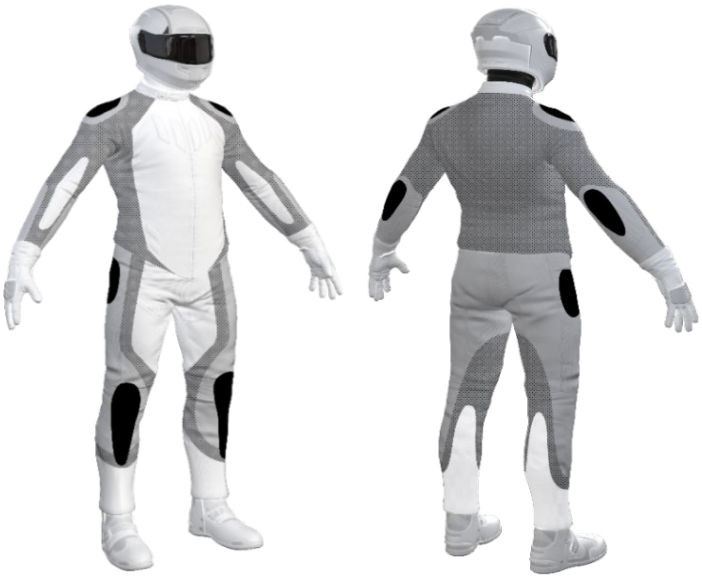
Brand	Ducati
Model	Flow C4+ Women
Type	Jacket - Textile
Date purchased	18 January 2022
Sizes tested	L and L
Test garment gender	Female
Style	All Purpose
RRP	$489.01

Test Results Summary	Rating	Score
MotoCAP Protection Rating	★★	37.7
Abrasion	2/10	1.37
Burst	10/10	1307
Impact	8/10	59.4
MotoCAP Breathability Rating	★★★★	0.615
Moisture Vapour Resistance	-	22.6
Thermal Resistance	-	0.232
Water resistance	1/10	67.4

This garment is fitted with impact protectors for the elbows and shoulders. Pockets are provided at the back for fitting aftermarket impact protectors. 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 to 2 stars.

Jacket and Pants - Crash Impact Risk Zones

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



Removable liners

Thermal liner	
Water resistant liner	✓

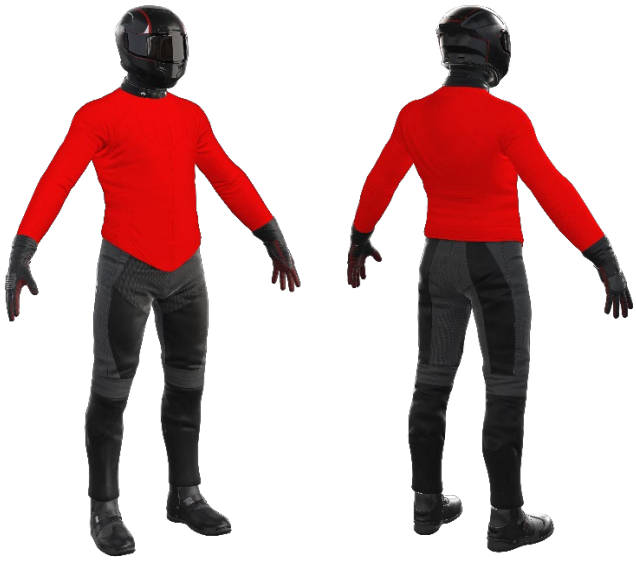
Removable impact protection

	Pockets	Armour
Elbow	✓	✓
Shoulder	✓	✓
Back	✓	

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 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	2/10
Abrasion score	1.37

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)

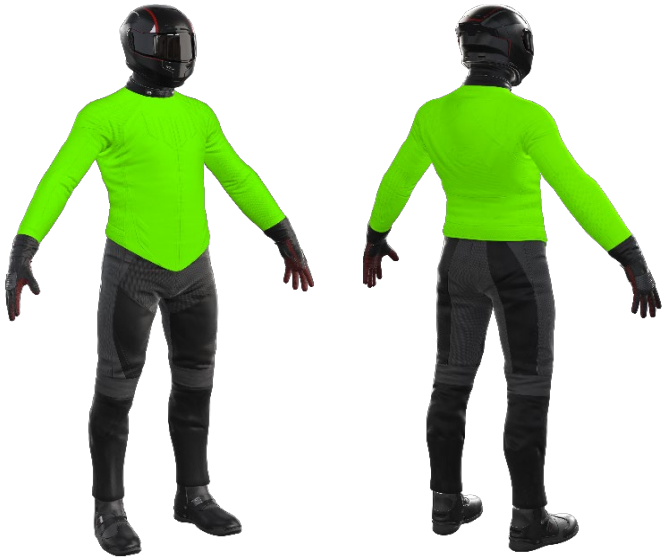
Zone 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	75%	5.69	1.68	5.73	5.51	6.08	N/A	4.94	A
Material B	25%	0.65	0.59	0.51	0.63	0.56	N/A	0.59	P
Zone 3	**Coverage (%)**	**Sample 1**	**Sample 2**	**Sample 3**	**Sample 4**	**Sample 5**	**Sample 6**	**Average**	
Material B	40%	0.65	0.59	0.51	0.63	0.56	N/A	0.59	P
Material C	60%	0.47	0.37	0.36	0.42	0.26	0.31	0.36	P
Zone 4	**Coverage (%)**	**Sample 1**	**Sample 2**	**Sample 3**	**Sample 4**	**Sample 5**	**Sample 6**	**Average**	
Material B	25%	0.65	0.59	0.51	0.63	0.56	N/A	0.59	M
Material C	75%	0.47	0.37	0.36	0.42	0.26	0.31	0.36	P

Details of materials used in jacket

Material A	Woven fabric shell, foam layer, fabric layer, fabric layer and mesh inner liner
Material B	Woven fabric shell and mesh inner liner
Material C	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	1307

Determining Criteria	Unit	Good	Acceptable	Marginal	Poor
Burst strength	(kPa)	> 1000	800 - 1000	500 - 799	< 500

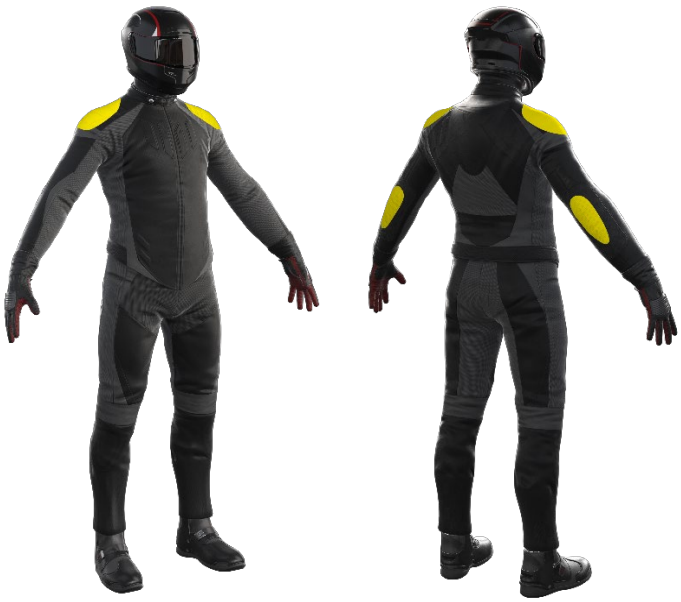
Individual Burst Strength Results: - The table below shows the burst pressure in kilopascals (kPA) for each sample tested by Zone and the average result for each zone.

Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Zones 1 & 2	812	1393	1282	873	1950	1946	1376	G
Zones 3 & 4	926	895	1624	1479	562	710	1033	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 maximum force for each impact zone. Areas shaded black are not considered for impact protection ratings.



Impact Protection Performance	
Impact rating	8/10
Impact score	59.4

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)	16.5	A	16.2	A
Maximum force (kN)	17.9	A	17.2	A
Coverage of Zone 1 area	150%		90%	
Coverage of Zone after displacement	100%		90%	

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	15.3	16.5	17.9	15.4	16.6	16.5
Impact Protector 2	15.7	15.9	16.5	16.4	16.1	16.6
Impact Protector 3	16.7	16.2	17.6	15.8	15.5	17.2

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 liners		With water-resistant liner	
Breathability rating	★★★★	Breathability rating	★★
Breathability score	0.615	Breathability score	0.359

Moisture Vapour Resistance - R_{et} (kPa.m^2/W)	1	2	Average
Without removable liners	22.0	23.2	22.6
With water-resistant liner	45.8	46.3	46.0

Thermal Resistance - R_{ct} (K.m^2/W)	1	2	Average
Without removable liners	0.225	0.239	0.232
With water-resistant liner	0.273	0.278	0.276

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	284	25%	174	60%
Jacket 2	423	38%	211	75%
Average	353	32%	193	67%

Location of wetting

Major visible wetting to the cotton underwear was present over the chest, neck, cuffs of sleeves and back for both jackets tested.

Assessment Details.

Brand	Ducati
Model	Flow C4+ Women
Type	Jacket - Textile
Date purchased	18 January 2022
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	J20T39
Rating first published	March 2022
Rating updated	18 March 2022