



This MotoCAP safety rating applies to:

Brand Ducati
Model Desert C1
Type Jacket - Textile
Date purchased 22 September 2023

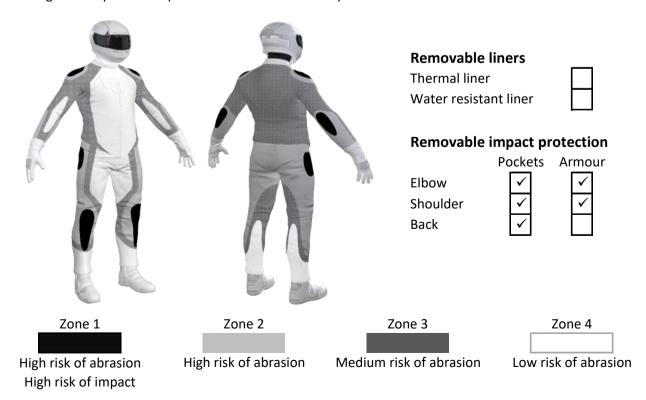
Sizes tested 54 and 56
Test garment gender Male
Style Tourer
RRP \$799.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	**	29.0
Abrasion	1/10	0.39
Burst	10/10	1008
Impact	8/10	56.7
MotoCAP Breathability Rating	*	0.286
Moisture Vapour Resistance	-	56.7
Thermal Resistance	-	0.271
Water resistance	N/A	N/A

This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided for an aftermarket back protector. Detaching the removable arms from this jacket would reduce the protection rating to half a star as abrasion, impact and burst protection is removed from the high risk area of the arms. There are zipped vents in the chest and back to allow controlled airflow movement through the garment. The breathability rating is based on tests of the garment's materials when all vents are closed. The breathability 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.





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	0.39

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)

Abrasion time	ioi each lest (sec	ionus)							
Zone 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	60%	5.55	10.00	9.00	9.51	8.93	3.14	7.69 G	ì
Material B	40%	0.87	0.65	0.63	0.75	0.49	0.60	0.67 P	
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	_
Material B	100%	0.87	0.65	0.63	0.75	0.49	0.60	0.67 P	
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	0.87	0.65	0.63	0.75	0.49	0.60	0.67 M	1

Details of materials used in jacket

Material A	Woven fabric shell, foam layer and fabric inner liner
Material B	Woven 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	1008

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	753	641	1026	1187	1094	1120	970	Α
Zones 3 & 4	1237	1049	1021	1297	1236	1107	1158	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	56.7

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)	13.9	G	12.7 G
Maximum force (kN)	16.2	A	14.9 G
Coverage of Zone 1 area	115%		100%
Coverage of Zone after displacement	80%		100%

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	14.8	12.8	11.9	12.2	10.4	12.0
Impact Protector 2	16.2	12.4	14.6	14.0	14.9	12.0
Impact Protector 3	14.0	13.5	14.8	12.3	12.9	13.4



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	With water-resistant liner		
Breathability rating ★	Brea	Breathability rating		
Breathability score 0.286	Brea	Breathability score N/A		
Moisture Vapour Resistance - R _{et} (kPa.m²/W)	1	2	Average	
Without removable liners	57.1	56.4	56.7	
With water-resistant liner	N/A	N/A	N/A	
Thermal Resistance - R _{ct} (K.m²/W)	1	2	Average	
Without removable liners	0.271	0.271	0.271	
With water-resistant liner	N/A	N/A	N/A	

Water spray and rain resistance

This jacket has not been advertised as water-resistant so has not been tested for water spray and rain resistance.

Assessment Details.

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Model Desert C1

Type Jacket - Textile

Date purchased 22 September 2023

Tested by AMCAF, Deakin University

Report approved by MotoCAP Chief Scientist

Garment test reference J24T08

Rating first published November 2023 Rating updated 23 October 2024