





This MotoCAP safety rating applies to:

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

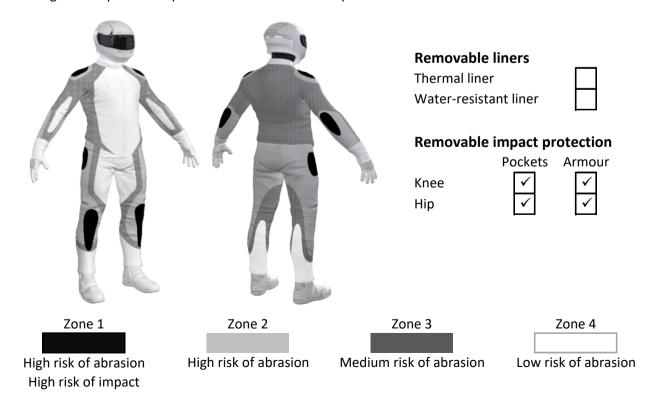
Sizes tested 50 and 54
Test garment gender Male
Style Tourer
RRP \$519.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	21.5
Abrasion	1/10	0.48
Burst	8/10	898
Impact	5/10	33.9
MotoCAP Breathability Rating	**	0.395
Moisture Vapour Resistance	-	33.3
Thermal Resistance	-	0.220
Water resistance	N/A	N/A

This garment is fitted with impact protectors for the knees and hips. Replacing the hip armour with higher performing impact protectors would improve the protection levels of this garment. There are zipped vents in the upper legs 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

These pants were 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	0.48

Determining Criteria	Area	Good	Acceptable	Marginal	Poor
High abrasion risk	Zones 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)

ADIASION UNITE	ioi eacii test (sec	,uiius)						
Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	60%	2.18	2.40	1.63	2.26	2.28	1.78	2.09 M
Material B	40%	0.48	0.52	0.62	0.62	0.51	0.61	0.56 P
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.48	0.52	0.62	0.62	0.51	0.61	0.56 P
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.48	0.52	0.62	0.62	0.51	0.61	0.56 M

Details of materials used in pant

Material A	Woven fabric shell, mesh layer, knitted foam layer and mesh inner liner
Material B	Woven fabric shell with mesh inner liner



Burst Strength

These pants were 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	8/10	
Rurst score	202	

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	610	869	767	776	913	1361	883	Α
Zones 3 & 4	1204	716	1014	971	955	887	958	Α



Impact Protection

These pants were 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 5/10

Impact score

33.9

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

Impact Protector Results: - The table below shows the average and maximum force transmitted through each impact protector type in kilonewtons (kN) and their area of coverage as a proportion (%) of the Zone.

Impact protector type	Knee		Hip
Average force (kN)	14.2	G	22.4 A
Maximum force (kN)	16.1	A	26.8 M
Coverage of Zone 1 area	100%		100%
Coverage of Zone after displacement	50%		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	Knee			Hip		
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	13.1	12.3	13.6	19.4	21.6	26.7
Impact Protector 2	12.6	16.1	16.0	20.0	21.0	22.2
Impact Protector 3	13.4	14.8	16.0	20.4	23.6	26.8



Breathability

These pants were 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	**	Brea	thability rating	N/A
Breathability score	0.395	Brea	thability score	N/A
Moisture Vapour Resis	stance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liners	S	35.6	31.0	33.3
With water-resistant line	r	N/A	N/A	N/A
Thermal Resistance - F	R _{ct} (K.m²/W)	1	2	Average
Without removable liners	S	0.221	0.219	0.220
With water-resistant line	r	N/A	N/A	N/A

Water spray and rain resistance

This pants have 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 Pants - Textile

Date purchased 22 September 2023

Tested by AMCAF, Deakin University

Report approved by MotoCAP Chief Scientist

Garment test reference P24T06

Rating first published November 2023 Rating updated 23 October 2024