



This MotoCAP safety rating applies to:

Brand Ducati

Model Scrambler Quattrotasche

Type Jacket - Leather
Date purchased 4 December 2020

Sizes tested 54 & 56

Test garment gender Male

Style All Purpose

RRP \$839.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	**	29.9
Abrasion	3/10	2.78
Burst	9/10	962
Impact	3/10	21.3
MotoCAP Breathability Rating	*	0.285
Moisture Vapour Resistance	-	63.0
Thermal Resistance	-	0.299
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. Elbow and shoulder impact protectors are permanently fixed and can not be exchanged with aftermarket impact protectors. There are no vents to allow airflow movement through the garment.

Jacket and Pants - Crash Impact Risk Zones

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

		Removable Thermal liner Water-resista Removable Elbow Shoulder Back	
Zone 1	Zone 2	Zone 3	Zone 4
High risk of obrasis:	High rick of abrasian	Modium rick of abrasian	Low risk of abrasior
High risk of abrasion	High risk of abrasion	Medium risk of abrasion	LOW LISK OF ADJUSTOR
High risk of impact			



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	3/10
Abrasion score	2.78

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)

Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	80%	3.04	2.65	3.62	3.07			3.10	Α
Material B	20%	2.62	2.33	3.02	2.50	2.66	2.32	2.58	М
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	2.62	2.33	3.02	2.50	2.66	2.32	2.58	G
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	2.62	2.33	3.02	2.50	2.66	2.32	2.58	G

Details of materials used in jacket

Material A	Leather shell, foam layer and quilted fabric inner liner
Material B	Leather shell with quilted fabric 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	9/10
Burst score	962

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	1042	627	796	902	954	978	883	Α
Zones 3 & 4	1956	704	1901	1872	674	554	1277	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 3/10
Impact score 21.3

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	Elbow		Shoulder
Average force (kN)	23.6	A	24.1 A
Maximum force (kN)	24.3	A	25.7 M
Coverage of Zone 1 area	70%		80%
Coverage of Zone after displacement	50%		70%

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	23.2	23.6	23.5	22.8	24.0	25.0
Impact Protector 2	23.3	24.3	23.8	23.7	25.7	24.5
Impact Protector 3	23.3	23.8	23.5	23.9	23.4	24.0



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 liners	With	With water-resistant liner		
Breathability rating ★	Breat	Breathability rating N/A Breathability score N/A		
Breathability score 0.285	Breat			
Moisture Vapour Resistance - R _{et} (kPa.n	n ² / W) 1	2	Average	
Without removable liners	63.8	62.2	63.0	
With water-resistant liner	N/A	N/A	N/A	
Thermal Resistance - R _{ct} (K.m²/W)	1	2	Average	
Without removable liners	0.299	0.300	0.299	
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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Type Jacket - Leather
Date purchased 4 December 2020

Tested by AMCAF, Deakin University

Garment test reference J20L04
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