



This MotoCAP safety rating applies to:

Brand Oxford

Model Original Approved AA

Type Denim Pants
Date purchased 13 March 2024

Sizes tested 38
Test garment gender Male

Style All Purpose RRP \$259.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	25.5
Abrasion	1/10	1.08
Burst	8/10	885
Impact	5/10	37.4
MotoCAP Breathability Rating	***	0.441
Moisture Vapour Resistance	-	22.3
Thermal Resistance	-	0.164
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 no vents to allow airflow movement through the garment. There is the potential for burns from heat transferred through the fly button and pocket studs of the pants during a slide.

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 Knee Hip	
Zone 1	Zone 2	Zone 3	Zone 4
High risk of abrasion	High risk of abrasion	Medium risk of abrasion	Low risk of abrasion
High risk of impact	0		



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	1.08

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)

Abrasion time t	or each test (sec	ionas)							
Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	60%	2.42	1.99	1.56	2.72	2.11	1.62	2.07	М
Material B	40%	1.39	0.87	0.73	1.73	0.84	0.91	1.08	Р
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	_
Material B	100%	1.39	0.87	0.73	1.73	0.84	0.91	1.08	M
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	1.39	0.87	0.73	1.73	0.84	0.91	1.08	Α

Details of materials used in pant

Material B Denim fabric shell



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			
Purst score	000			

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	900	1135	830	711	1232	722	922	Α
Zones 3 & 4	720	830	642	814	747	686	740	М



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	37.4

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

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)	15.5	A	27.5 M
Maximum force (kN)	18.0	A	29.6 M
Coverage of Zone 1 area	95%		150%
Coverage of Zone after displacement	60%		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	Knee			Hip		
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	14.2	14.8	18.0	27.6	26.7	27.0
Impact Protector 2	14.2	15.3	16.7	27.9	29.6	28.8
Impact Protector 3	14.3	15.1	16.8	26.8	27.5	25.9



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 I	With water-resistant liner				
Breathability rating ★★★		Brea	N/A		
Breathability score	0.441	Brea	N/A Average		
Moisture Vapour Resistance - R _{et} (kPa.m²/W)		1			2
Without removable liner	S	22.3	22.2	22.3	
With water-resistant line	er	N/A	N/A	N/A	
Thermal Resistance -	R _{ct} (K.m²/W)	1	2	Average	
Without removable liner	S	0.165	0.163	0.164	
With water-resistant line	er	N/A	N/A	N/A	
Willi water-resistant iirie	;I	IN/A	IN/A	1	

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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Date purchased 13 March 2024

Tested by AMCAF, Deakin University Report approved by MotoCAP Chief Scientist

Garment test reference P24D13
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