

MOTOCAP

Model	Euuas	ddas			
Туре	Pants - Textile	nts - Textile			
Date purchased	19 August 2023				
Sizes tested	L and XL				
Test garment gender	Male				
Style	Tourer				
RRP	\$449.95				
		_			
Test Results Summary	Rating	Score			
Test Results Summary MotoCAP Protection Rati	<u> </u>	Score 29.9			
	<u> </u>				
MotoCAP Protection Rati	ng ★★	29.9			
MotoCAP Protection Rati Abrasion	ng ★★ 1/10	29.9 0.93			
MotoCAP Protection Rati Abrasion Burst	ng ★★ 1/10 10/10 7/10	29.9 0.93 1047			
MotoCAP Protection Rati Abrasion Burst Impact	ng ★★ 1/10 10/10 7/10 ating ★★	29.9 0.93 1047 49.1			
MotoCAP Protection Rati Abrasion Burst Impact MotoCAP Breathability Ra	ng ★★ 1/10 10/10 7/10 ating ★★	29.9 0.93 1047 49.1 0.365			

This MotoCAP safety rating applies to:

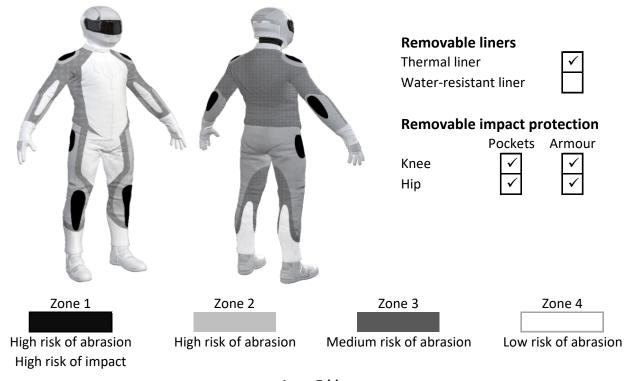
Ixon

Brand

This garment is fitted with impact protectors for the knees and hips. There are zipped vents in the upper legs to allow controlled airflow movement through the garment. There are removable thermal liners. Visible wetting to the cotton underwear was minimal. 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. Breathability was measured without the removable thermal liner installed.

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 Resistan	ce Performance
Abrasion rating	1/10

/ tor doi of i r d d ing	1,10
Abrasion score	0.93

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	40%	1.74	1.07	1.36	1.48	1.20	1.47	1.39 M
Material B	60%	1.18	0.90	0.96	1.22	1.19	1.01	1.08 P
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	50%	1.18	0.90	0.96	1.22	1.19	1.01	1.08 M
Material C	50%	0.90	0.98	1.06	0.69	0.67	0.79	0.85 M
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	25%	1.18	0.90	0.96	1.22	1.19	1.01	1.08 A
Material C	75%	0.90	0.98	1.06	0.69	0.67	0.79	0.85 M

Details of materials used in pant

Material A	Mesh woven fabric shell with water-resistant liner
Material B	Woven fabric shell with water-resistant liner
Material C	Stretch fabric shell, water-resistant 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	10/10				
Burst score	1047				

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.

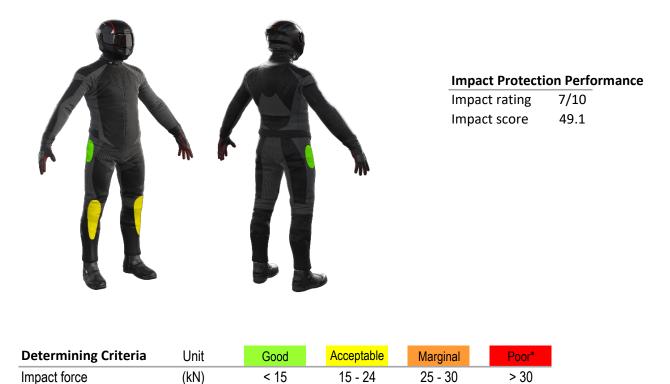
Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Zones 1 & 2	872	1500	790	1176	874	967	1030	G
Zones 3 & 4	1036	1056	1118	1253	1370	880	1119	G



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.



* 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		Нір	
Average force (kN)	12.2	G	5.6	G
Maximum force (kN)	20.1	A	7.2	G
Coverage of Zone 1 area	80%		120%	
Coverage of Zone after displacement	50%		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	13.3	12.1	20.1	4.6	5.5	7.2
Impact Protector 2	7.0	9.3	14.0	4.3	5.8	6.5
Impact Protector 3	7.6	9.9	16.3	4.8	5.8	5.8



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	0.365	Brea	thability score	N/A
Moisture Vapour Resis	tance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liners	3	46.4	44.9	45.6
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	3	0.274	0.281	0.278
With water-resistant line	r	N/A	N/A	N/A

Water spray and rain resistance

This pants are 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 (%)
Pants 1	237	18%	8	3%
Pants 2	543	41%	8	3%
Average	390	29%	8	3%

Location of wetting

There was no visible wetting to the cotton underwear for either pants tested.

Assessment Details.	
Brand	Ixon
Model	Eddas
Туре	Pants - Textile
Date purchased	19 August 2023
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	P24T02
Rating first published	November 2023
Rating updated	27 November 2023