



## This MotoCAP safety rating applies to:

Brand Ixon Model Jackal

Type Jacket - Leather Date purchased 29 June 2023

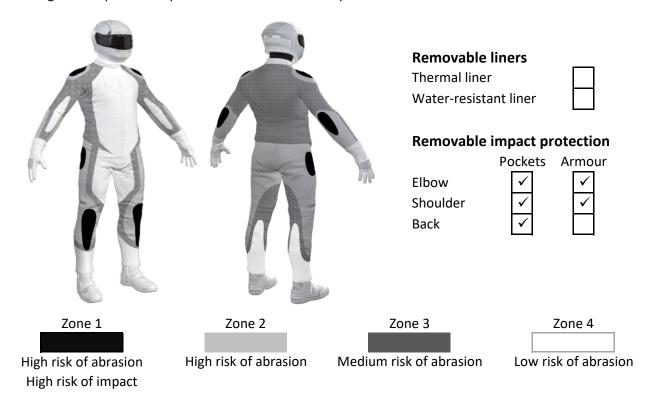
Sizes tested XL
Test garment gender Male
Style Sports
RRP \$599.95

Test Results Summary	Rating	Score
MotoCAP Protection Rating	***	51.2
Abrasion	7/10	4.91
Burst	10/10	1131
Impact	7/10	51.1
MotoCAP Breathability Rating	*	0.268
Moisture Vapour Resistance	-	59.4
Thermal Resistance	-	0.265
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. Perforated leather is located in the arms, chest and back 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.





#### **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	7/10
Abrasion score	4.91

<b>Determining Criteria</b>	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	100%	6.44	4.21	4.06	5.48	5.90	7.50	5.60	G
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	Ш
Material A	40%	6.44	4.21	4.06	5.48	5.90	7.50	5.60	G
Material B	60%	0.81	1.05	0.90	1.39	0.66	0.78	0.93	М
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	80%	6.44	4.21	4.06	5.48	5.90	7.50	5.60	G
Material C	25%	3.29	5.84	7.66	2.41	0.00	0.00	4.80	G

#### Details of materials used in jacket

Material A	Leather shell with mesh inner liner
Material B	Stretch fabric shell with mesh inner liner
Material C	Perforated leather 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.



<b>Burst St</b>	rength Pe	erformance
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Burst rating	10/10
Burst score	1131

<b>Determining Criteria</b>	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	1367	1177	993	1054	1016	1032	1106	G
Zones 3 & 4	899	470	2004	1997	1301	710	1230	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 7/10 Impact score 51.1

<b>Determining Criteria</b>	Unit	Good	Acceptable	Marginal	Poor*
Impact force	(kN)	< 15	15 - 24	25 - 30	> 30

<sup>\*</sup> 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)	11.6	G	11.6 <b>G</b>
Maximum force (kN)	18.2	A	18.2 A
Coverage of Zone 1 area	90%	<u>—</u>	100%
Coverage of Zone after displacement	90%		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	stor type Elbow Shoulder					
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	8.4	10.6	18.2	8.4	10.6	18.2
Impact Protector 2	9.0	10.3	11.3	9.0	10.3	11.3
Impact Protector 3	9.6	11.2	15.9	9.6	11.2	15.9



## 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 water-resistant liner		
Breathability rating	hability rating ★ Breathability rat		thability rating	N/A
Breathability score	0.268	Breathability score N/A		N/A
Moisture Vapour Resistance - R <sub>et</sub> (kPa.m²/W)		1	2	Average
Without removable liners		59.6	59.2	59.4
With water-resistant liner		N/A	N/A	N/A
Thermal Resistance - R <sub>ct</sub> (K.m²/W)		1	2	Average
Without removable liners		0.260	0.270	0.265
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.**

Brand Ixon Model Jackal

Type Jacket - Leather Date purchased 29 June 2023

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

Garment test reference J23L24

Rating first published September 2023 Rating updated 15 September 2023