



## This MotoCAP safety rating applies to:

Brand Ixon Model Mike

Type Pants - Denim
Date purchased 28 July 2022
Sizes tested XL and 2XL
Test garment gender Male

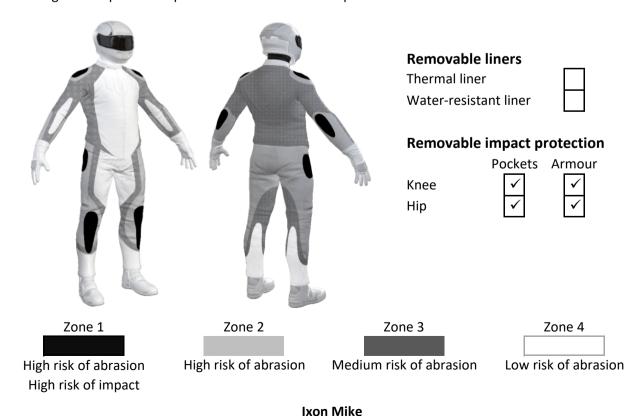
Test garment gender Male
Style All Purpose
RRP \$269.95

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	24.1
Abrasion	1/10	1.11
Burst	10/10	1058
Impact	4/10	26.6
MotoCAP Breathability Rating	***	0.461
Moisture Vapour Resistance	-	27.2
Thermal Resistance	-	0.209
Water resistance	N/A	N/A

This garment is fitted with impact protectors for the knees and hips. Replacing the knee and 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.

## **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	1.11

<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)

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Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	90%	1.12	1.64	1.01	1.03	1.48	0.98	1.21	Р
Material B	10%	0.75	0.54	0.57	0.78	0.69	0.51	0.64	Р
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	1.12	1.64	1.01	1.03	1.48	0.98	1.21	M
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	90%	1.12	1.64	1.01	1.03	1.48	0.98	1.21	Α
Material B	10%	0.75	0.54	0.57	0.78	0.69	0.51	0.64	М

## Details of materials used in pant

Material A	Denim fabric shell
Material B	Denim 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 10/10
Burst score 1058

<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	963	978	1270	1169	956	1002	1056	G
Zones 3 & 4	1270	882	944	1324	909	1045	1062	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.



# Impact Protection Performance

Impact rating 4/10 Impact score 26.6

<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	Knee	Hip
Average force (kN)	30.2 P	28.2 M
Maximum force (kN)	32.3 P	29.4 M
Coverage of Zone 1 area	95%	150%
Coverage of Zone after displacement	70%	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	31.6	29.1	31.5	28.7	27.2	28.5
Impact Protector 2	30.0	27.7	25.6	28.6	28.1	27.0
Impact Protector 3	32.0	32.3	32.0	28.4	27.9	29.4



## **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	iners	With	n water-resist	ant liner	
Breathability rating ★★★		Brea	thability rating	N/A	
Breathability score	0.461	Breathability score		N/A	
Moisture Vapour Resis	stance - R <sub>et</sub> (kPa.m²/W)	1	2	Average	
Without removable liner	S	27.3	27.2	27.2	
With water-resistant line	er	N/A	N/A	N/A	
Thermal Resistance - I	R <sub>ct</sub> (K.m²/W)	1	2	Average	
Without removable liner	S	0.208	0.210	0.209	
With water-resistant line	er	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.**

Brand Ixon Model Mike

Type Pants - Denim Date purchased 28 July 2022

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

Garment test reference P21D08
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