



# This MotoCAP safety rating applies to:

Brand Bull-it

Model Women's Fury Jeggings

Type Pants - Denim
Date purchased 30 August 2024

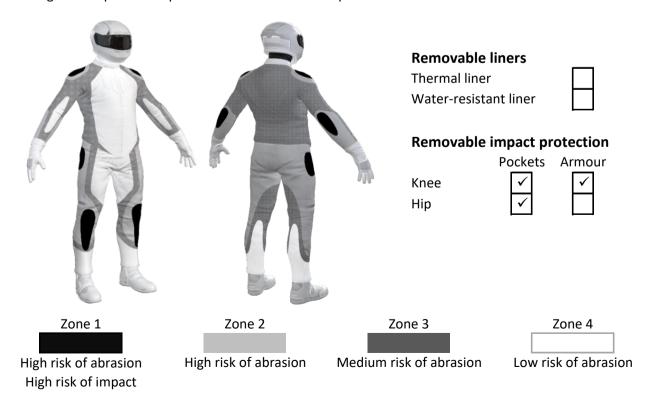
Sizes tested 12
Test garment gender Female
Style All Purpose
RRP \$249.95

Test Results Summary	Rating	Score
MotoCAP Protection Rating	+	11.3
Abrasion	1/10	0.55
Burst	8/10	853
Impact	1/10	0.0
MotoCAP Breathability Rating	***	0.554
Moisture Vapour Resistance	-	19.4
Thermal Resistance	-	0.180
Water resistance	N/A	N/A

This garment is fitted with impact protectors for the knees. Pockets are provided at the hips for fitting aftermarket impact protectors. Adding hip 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.





#### **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	0.55

<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	75%	2.51	1.32	1.22	1.47	1.22	1.24	1.50
Material B	25%	0.33	0.28	0.37	0.42	0.31	0.36	0.35
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average -
Material B	100%	0.33	0.28	0.37	0.42	0.31	0.36	0.35
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.33	0.28	0.37	0.42	0.31	0.36	0.35

# Details of materials used in pant

Material A Stretch fabric shell with fabric inner liner

Material B Stretch 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				
Burst score	853				

<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	1062	933	996	663	516	1456	937	Α
Zones 3 & 4	674	414	595	400	458	560	517	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 1/10

Impact score

0.0

<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)	23.6	A	Р
Maximum force (kN)	27.1	M	Р
Coverage of Zone 1 area	110%		0%
Coverage of Zone after displacement	100%		0%

**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	No impact prot	ector present
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	21.0	24.5	25.8			
Impact Protector 2	20.6	23.3	24.8			
Impact Protector 3	22.1	22.8	27.1			



## 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 l	liners	With water-resistant liner				
Breathability rating	***	Brea	thability rating	N/A		
Breathability score	0.554	Brea	thability score	N/A		
Moisture Vapour Resi	stance - R <sub>et</sub> (kPa.m²/W)	1	2	Average		
Without removable liner	rs .	19.2	19.7	19.4		
With water-resistant line	er	N/A	N/A	N/A		
Thermal Resistance -	$R_{ct}$ (K.m <sup>2</sup> /W)	1	2	Average		
Without removable liner	^S	0.181	0.178	0.180		
With water-resistant line	er	N/A	N/A	N/A		

## Water spray and rain resistance

These pants have not been advertised as water-resistant so have not been tested for water spray and rain resistance.

## **Assessment Details.**

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Date purchased 30 August 2024

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

Garment test reference P25D05
Rating first published December 2024
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