



This MotoCAP safety rating applies to:

Brand PMJ

Model Skinny Ladies
Type Pants-Denim
Date purchased 22 November 2023

Sizes tested 10 and 30
Test garment gender Female
Style All Purpose

RRP \$299.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	15.2
Abrasion	1/10	0.73
Burst	10/10	1154
Impact	1/10	0.0
MotoCAP Breathability Rating	****	0.660
Moisture Vapour Resistance	-	19.5
Thermal Resistance	-	0.214
Water resistance	N/A	N/A

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This garment is fitted with impact protectors for the knees. Pockets are provided at the hips for fitting aftermarket impact protectors. Replacing the knee armour with higher performing impact protectors and 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 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			



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	0.73

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	80%	2.05	1.72	1.87	1.84	1.91	2.36	1.96
Material B	20%	0.45	0.20	0.34	0.63	0.17	0.01	0.30
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.45	0.20	0.34	0.63	0.17	0.01	0.30
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.45	0.20	0.34	0.63	0.17	0.01	0.30

Details of materials used in pant

Material A	Denim fabric shell, para-aramid fabric layer and mesh inner liner
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	10/10			
Rurst score	1154			

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	1338	1634	451	1599	1278	1620	1320	G
Zones 3 & 4	508	553	564	411	452	449	490	Р



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

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)	29.1 M	Р
Maximum force (kN)	31.5 P	Р
Coverage of Zone 1 area	90%	0%
Coverage of Zone after displacement	60%	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 prof	ector present
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	24.3	30.2	31.5			
Impact Protector 2	26.9	29.4	30.5			
Impact Protector 3	28.7	30.3	30.4			



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 liners With water-		water-resista	-resistant liner		
Breathability rating	nability rating ★★★★ Breathability rating		thability rating	N/A	
Breathability score	0.660	Breathability score N/A			
Moisture Vapour Resi	stance - R _{et} (kPa.m²/W)	1	2	Average	
Without removable line	rs	20.9	18.1	19.5	
With water-resistant line	er	N/A	N/A	N/A	
Thermal Resistance -	R _{ct} (K.m ² /W)	1	2	Average	
Without removable line	rs	0.208	0.221	0.214	
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	Detai	ils.
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AMCAE Deakin University

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

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