



This MotoCAP safety rating applies to:

Brand PANDO MOTO

Model KUSARI COR 02

Type Pants - Textile

Date purchased 4 December 2024

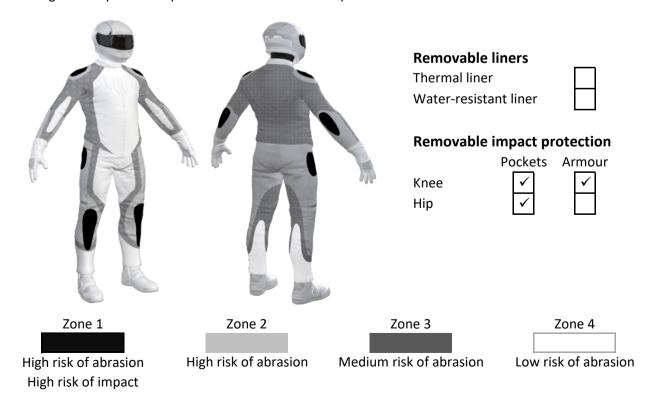
Sizes tested 26 and 28
Test garment gender Female
Style All Purpose
RRP \$399.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	+	9.8
Abrasion	1/10	0.48
Burst	7/10	740
Impact	1/10	0.0
MotoCAP Breathability Rating	***	0.524
Moisture Vapour Resistance	-	18.8
Thermal Resistance	-	0.165
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. 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 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	0.48

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	65%	0.68	0.62	0.76	0.73	0.61	0.90	0.72	Р
Material B	35%	0.43	0.35	0.45	0.44	0.49	0.39	0.42	Р
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	50%	0.68	0.62	0.76	0.73	0.61	0.90	0.72	Р
Material B	50%	0.43	0.35	0.45	0.44	0.49	0.39	0.42	Р
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	30%	0.68	0.62	0.76	0.73	0.61	0.90	0.72	М
Material B	70%	0.43	0.35	0.45	0.44	0.49	0.39	0.42	М

Details of materials used in pant

Material A Denim fabric shell with 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	7/10
Burst score	740

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	533	874	680	627	1075	871	777 M
Zones 3 & 4	623	574	473	601	676	630	596 M



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)	27.7 M	P
Maximum force (kN)	31.0 P	Р
Coverage of Zone 1 area	85%	0%
Coverage of Zone after displacement	70%	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	tector present
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	31.0	28.1	26.3			
Impact Protector 2	27.4	28.1	27.9			
Impact Protector 3	26.7	26.8	27.2			



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	water-resista	ant liner
Breathability rating	***	Breat	N/A	
Breathability score	0.524	Breathability score		N/A
Moisture Vapour Resis	stance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liner	S	18.4	19.3	18.8
With water-resistant line	r	N/A	N/A	N/A
Thermal Resistance - I	R _{ct} (K.m²/W)	1	2	Average
Without removable liner	S	0.163	0.166	0.165
With water-resistant line	r	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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Tested by AMCAF, Deakin University Report approved by MotoCAP Chief Scientist

Garment test reference P25D12
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