





This MotoCAP safety rating applies to:

Brand Finn Moto
Model 881 Protective
Type Pants - Denim
Date purchased 10 December 2024

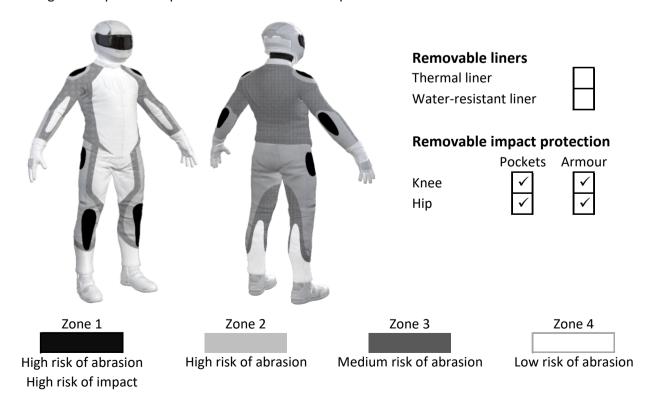
Sizes tested 36
Test garment gender Male
Style All Purpose
RRP \$318.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	****	77.4
Abrasion	10/10	9.31
Burst	10/10	1556
Impact	7/10	51.0
MotoCAP Breathability Rating	***	0.434
Moisture Vapour Resistance	-	37.7
Thermal Resistance	-	0.273
Water resistance	N/A	N/A

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





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 10/10 Abrasion score 9.31

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)

•	,							
Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
100%	9.54	9.18	10.00	9.50	7.84	9.80	9.31	G
Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
100%	9.54	9.18	10.00	9.50	7.84	9.80	9.31	G
Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
100%	9.54	9.18	10.00	9.50	7.84	9.80	9.31	G
	100% Coverage (%) 100% Coverage (%)	100% 9.54 Coverage (%) Sample 1 100% 9.54 Coverage (%) Sample 1	100% 9.54 9.18 Coverage (%) Sample 1 Sample 2 100% 9.54 9.18 Coverage (%) Sample 1 Sample 2	100% 9.54 9.18 10.00 Coverage (%) Sample 1 Sample 2 Sample 3 100% 9.54 9.18 10.00 Coverage (%) Sample 1 Sample 2 Sample 3	100% 9.54 9.18 10.00 9.50 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 100% 9.54 9.18 10.00 9.50 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4	100% 9.54 9.18 10.00 9.50 7.84 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 100% 9.54 9.18 10.00 9.50 7.84 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5	100% 9.54 9.18 10.00 9.50 7.84 9.80 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 Sample 6 100% 9.54 9.18 10.00 9.50 7.84 9.80 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 Sample 6	100% 9.54 9.18 10.00 9.50 7.84 9.80 9.31 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 Sample 6 Average 100% 9.54 9.18 10.00 9.50 7.84 9.80 9.31 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 Sample 6 Average

Details of materials used in pant

Material A Denim fabric shell, para-aramid fabric layer and 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	1556

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	1256	1216	1715	1718	1748	1769	1570	G
Zones 3 & 4	1643	1683	1496	1415	1349	1428	1502	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 7/10 Impact score 51.0

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)	14.5	G	16.0 A
Maximum force (kN)	15.9	A	22.0 A
Coverage of Zone 1 area	95%	<u> </u>	130%
Coverage of Zone after displacement	80%		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	13.8	14.9	15.9	14.7	14.9	22.0
Impact Protector 2	13.0	14.0	14.7	15.1	13.6	15.0
Impact Protector 3	14.1	15.0	15.2	15.9	16.8	16.3



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 li	With	water-resista	ant liner	
Breathability rating	***	Breat	hability rating	N/A
Breathability score	0.434	Breat	hability score	N/A
Moisture Vapour Resis	tance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liners	3	37.9	37.6	37.7
With water-resistant line	r	N/A	N/A	N/A
Thermal Resistance - F	R _{ct} (K.m²/W)	1	2	Average
Without removable liners	3	0.270	0.275	0.273
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.

Brand Finn Moto

Model 881 Protective

Type Pants - Denim

Date purchased 10 December 2024

Tested by AMCAF, Deakin University

Report approved by MotoCAP Chief Scientist

Garment test reference P25D10
Rating first published February 2025
Rating updated 18 February 2025