



This MotoCAP safety rating applies to:

Brand Speed and Strength
Model Dogs of war 2.0
Type Pants - Textile
Date purchased 10 February 2022

Sizes tested 36 and 38

Test garment gender Male

Style All Purpose

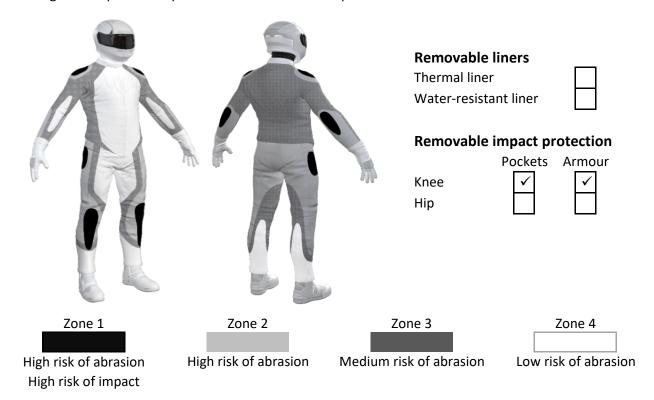
RRP \$289.95

Test Results Summary	Rating	Score
MotoCAP Protection Rating	+	8.4
Abrasion	1/10	0.45
Burst	6/10	614
Impact	1/10	0.0
MotoCAP Breathability Rating	***	0.474
Moisture Vapour Resistance	-	24.0
Thermal Resistance	-	0.190
Water resistance	N/A	N/A

This garment is fitted with impact protectors for the knees. There are no pockets 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.

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	0.45

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)

ADIASION UNITE	ioi eacii iesi (sec	,uiius)							
Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	80%	1.36	1.28	1.03	1.23	1.18	1.14	1.20	Р
Material B	20%	0.04	0.14	0.21	0.32	0.24	0.20	0.19	Р
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	0.04	0.14	0.21	0.32	0.24	0.20	0.19	Р
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	0.04	0.14	0.21	0.32	0.24	0.20	0.19	Р

Details of materials used in jacket

Material A	Woven fabric shell, Aramid fabric layer and mesh inner liner
Material B	Woven fabric shell 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 Strengtl	h Performance	
Burst rating	6/10	
Burst score	614	

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	1030	682	916	459	414	484	664	M
Zones 3 & 4	398	405	400	578	312	377	412	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)	21.8	Α	
Maximum force (kN)	25.5	M	
Coverage of Zone 1 area	90%	<u> </u>	0%
Coverage of Zone after displacement	50%		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	19.1	20.7	25.0			
Impact Protector 2	20.5	19.2	23.6			
Impact Protector 3	20.5	21.9	25.5			



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-resistant liner				
Breathability rating ★★★		Brea	thability rating	N/A	
Breathability score	0.474	Brea	N/A		
Moisture Vapour Resis	stance - R _{et} (kPa.m²/W)	1	2	Average	
Without removable liners	S	22.9	25.1	24.0	
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	S	0.187	0.193	0.190	
With water-resistant line	r	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 Speed and Strength Model Dogs of war 2.0 Type Pants - Textile Date purchased 10 February 2022

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

Garment test reference P20T21
Rating first published March 2022
Rating updated 24 March 2022