

MOTOCAP

This MotoCAP safety rating applies to:

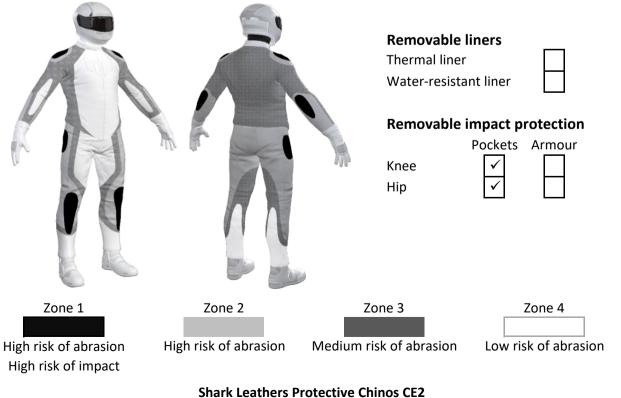
Brand	Shark Leathers
Model	Protective Chinos CE2
Туре	Pants - Textile
Date purchased	1 June 2023
Sizes tested	36 and 38
Test garment gender	Male
Style	All Purpose
RRP	\$199.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	+	9.6
Abrasion	1/10	0.89
Burst	5/10	508
Impact	1/10	0.0
MotoCAP Breathability Rating	***	0.462
Moisture Vapour Resistance	-	20.5
Thermal Resistance	-	0.158
Water resistance	N/A	N/A

Pockets are provided at the knees and hips for fitting aftermarket impact protectors. Adding knee and 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.



Shark Leathers Protective Chinos CE2 Textile Pants



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 rating	1/10
Abrasion score	0.89

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	100%	1.36	0.97	0.91	1.03	0.91	1.16	1.06 <mark>P</mark>
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	70%	1.36	0.97	0.91	1.03	0.91	1.16	1.06 M
Material B	30%	0.06	0.12	0.04	0.08	0.22	0.18	0.12 P
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	35%	1.36	0.97	0.91	1.03	0.91	1.16	1.06 A
Material B	65%	0.06	0.12	0.04	0.08	0.22	0.18	0.12 P

Details of materials used in pant

Material A	Woven fabric shell and para-aramid fabric layer
Material B	Woven 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	5/10				
Burst score	508				

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.

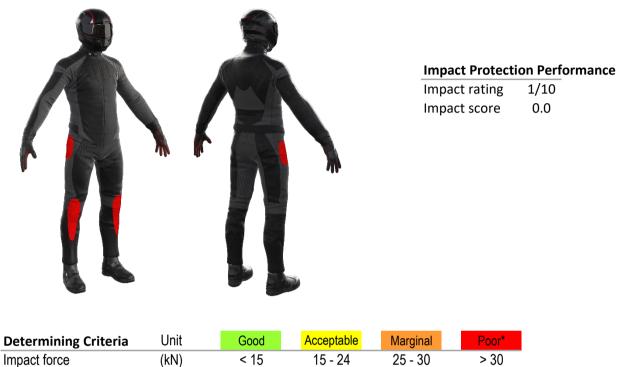
Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Zones 1 & 2	454	465	624	670	545	457	536 M
Zones 3 & 4	463	372	269	404	501	388	399 P



Impact Protection

These pants were not tested for impact protection as impact protectors were not provided with the garment. 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.



* 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	Нір
Average force (kN)	P	Р
Maximum force (kN)	P	P
Coverage of Zone 1 area	0%	0%
Coverage of Zone after displacement	0%	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	No impact protector present		Knee No impact protector preser		Knee No impact protector present	Нір	No impact pro	tector present
Strike location	Centre	Mid	Edge	Centre	Mid	Edge			
Impact Protector 1									
Impact Protector 2									
Impact Protector 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 liners		With water-resistant liner		
Breathability rating	***	Brea	thability rating	N/A
Breathability score	0.462	Brea	thability score	N/A
Moisture Vapour Resistance - R _{et} (kPa.m ² /W)		1	2	Average
Without removable liner	rs	20.7	20.4	20.5
With water-resistant line	er	N/A	N/A	N/A
Thermal Resistance - R _{ct} (K.m²/W)		1	2	Average
Without removable liner	rs	0.165	0.152	0.158
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 Details.

Brand	Shark Leathers
Model	Protective Chinos CE2
Туре	Pants - Textile
Date purchased	1 June 2023
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	P23T11
Rating first published	August 2023
Rating updated	9 August 2023