



This MotoCAP safety rating applies to:

Brand Alpinestars
Model Venture XT 2023
Type Textile Jacket
Date purchased 20 January 2024

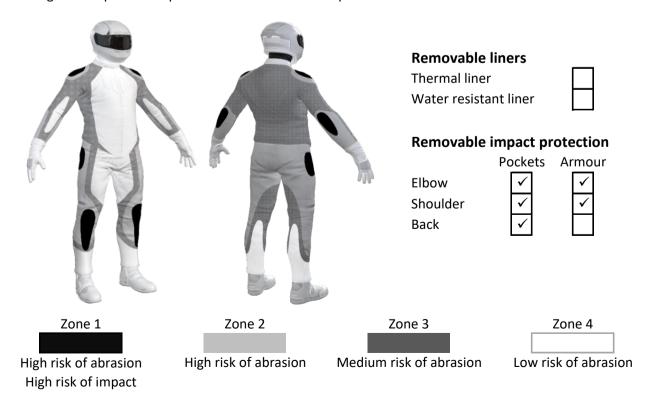
Sizes tested M and L
Test garment gender Male
Style Adventure
RRP \$379.99

Test Results Summary	Rating	Score
MotoCAP Protection Rating	**	33.2
Abrasion	1/10	1.30
Burst	10/10	1635
Impact	5/10	34.7
MotoCAP Breathability Rating	+	0.074
Moisture Vapour Resistance	-	219.8
Thermal Resistance	-	0.273
Water resistance	N/A	N/A

This garment is fitted with impact protectors for the elbows and shoulders. Pockets are provided for aftermarket back and chest protectors. Replacing the elbow armour with higher performing impact protectors would improve the protection levels of this garment. There are zipped vents in the chest, arms and back to allow controlled airflow movement through the garment. The breathability rating is based on tests of the garment's materials when all vents are closed. The breathability of this product may be better when the vents can be opened.

Jacket and Pants - Crash Impact Risk Zones

This diagram is a pictorial representation of the crash impact risk Zones.





Abrasion Resistance

The jacket was 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	1.30

Determining Criteria	Area	Good	Acceptable	Marginal	Poor
High abrasion risk	Zone 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)

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Zone 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	90%	3.81	1.88	1.82	1.28	2.41	1.60	2.14 M
Material B	10%	0.77	0.66	0.61	0.62	0.60	0.57	0.64 P
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.77	0.66	0.61	0.62	0.60	0.57	0.64 P
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.77	0.66	0.61	0.62	0.60	0.57	0.64 M

Details of materials used in jacket

Material A	Fabric shell, fabric layer and mesh inner liner
Material B	Woven fabric shell with mesh inner liner



Burst Strength

The jacket was 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	1635				

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	1709	1646	1764	1787	1603	1822	1722	G
Zones 3 & 4	1052	1152	1448	1183	1692	1206	1289	G



Impact Protection

The jacket was 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 5/10

Impact score

34.7

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

Individual Impact Protector Results: - The table below shows the test results for each strike on each impact protector in kilonewtons (kN) and their area of coverage as a proportion (%) of the Zone. Individual strike results are capped at a maximum of 50kN.

Impact protector type	Elbow		Shoulder
Average force (kN)	24.3	A	22.9 A
Maximum force (kN)	26.8	M	24.4 A
Coverage of Zone 1 area	105%		100%
Coverage of Zone after displacement	90%		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	Elbow	Shoulder				
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	20.3	24.1	26.5	20.9	22.7	23.7
Impact Protector 2	22.0	24.0	26.8	22.9	22.8	23.5
Impact Protector 3	22.9	25.6	26.3	23.1	21.9	24.4



Breathability

The jacket was 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-resist	ant liner	
Breathability rating	Breat	hability rating	N/A	
Breathability score	0.074	Breat	hability score	N/A
Moisture Vapour Resis	tance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liners	3	227.9	211.8	219.8
With water-resistant line	r	N/A	N/A	N/A
Thermal Resistance - R	R _{ct} (K.m²/W)	1	2	Average
Without removable liners	3	0.276	0.269	0.273
With water-resistant lines	r	N/A	N/A	N/A

Water spray and rain resistance

This jacket has not been advertised as water-resistant so has not been tested for water spray and rain resistance.

Assessment Details.

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Model Venture XT 2023
Type Textile Jacket
Date purchased 20 January 2024

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

Garment test reference J24T21
Rating first published February 2024
Rating updated 21 October 2024