

MOTOCAP

Brand	Alp	inestars	
Model	Fas	ter V2 Airflov	N
Туре	Jacl	ket - Leather	
Date purchased	3 A	pril 2023	
Sizes tested	56 a	and 58	
Test garment gender	Ma	le	
Style	Spo	orts	
RRP	\$59	9.99	
Test Results Summary		Rating	Score
Test Results Summary MotoCAP Protection Rat	ing	Rating ★★★★★	Score 65.5
	ing		
MotoCAP Protection Rat	ing	****	65.5
MotoCAP Protection Rat Abrasion	ing	****	65.5 8.25
MotoCAP Protection Rat Abrasion Burst		***** 10/10 10/10	65.5 8.25 1260
MotoCAP Protection Rat Abrasion Burst Impact	ating	★★★★ 10/10 10/10 5/10	65.5 8.25 1260 38.8

N/A

N/A

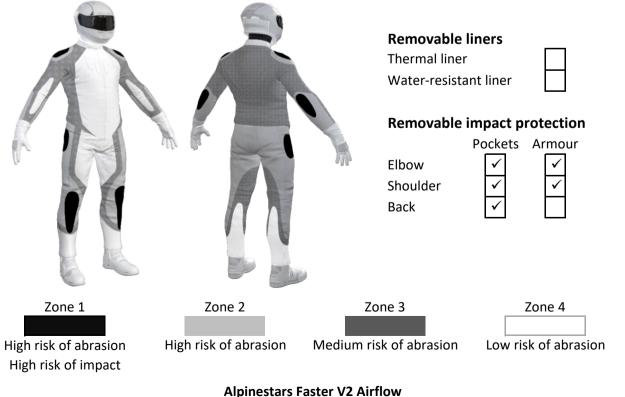
This MotoCAP safety rating applies to:

This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided for an aftermarket back protector. Replacing the shoulder armour with higher performing impact protectors would improve the protection levels of this garment. There is perforated leather in the chest and back, and stretch mesh panels in the arms to allow airflow movement through the garment.

Water resistance

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 rating	10/10
Abrasion score	8.25

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%	10.00	10.00	10.00	10.00	10.00	10.00	10.00 G
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	25%	6.59	7.01	9.03	8.00			7.66 G
Material C	75%	4.17	4.21	4.13	3.93	3.12	3.55	3.85 G
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	90%	6.59	7.01	9.03	8.00			7.66 G
Material D	10%	0.99	1.05	0.85	0.77	0.78	0.85	0.88 M

Details of materials used in jacket

Material A	Leather shell, leather layer and mesh inner liner
Material B	Leather shell with mesh inner liner
Material C	Perforated leather shell with mesh inner liner
Material D	Stretch 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	1260				

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.

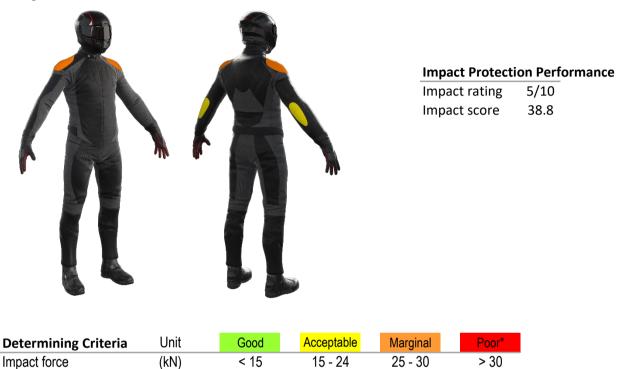
Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Zones 1 & 2	1739	406	1865	1351	1291		1330	G
Zones 3 & 4	1675	844	478	1086	987	794	977	Α



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.



* 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	Elbow		Shoulder
Average force (kN)	21.5	A	21.9 A
Maximum force (kN)	23.6	A	25.5 M
Coverage of Zone 1 area	105%		100%
Coverage of Zone after displacement	100%		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	20.6	22.2	21.2	20.1	21.6	25.5
Impact Protector 2	20.5	21.8	21.1	20.1	22.7	21.4
Impact Protector 3	20.5	21.7	23.6	21.1	21.6	22.6



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 I	With	With water-resistant liner		
Breathability rating	**	Brea	thability rating	N/A
Breathability score	0.357	Brea	thability score	N/A
Moisture Vapour Resis	stance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liner	S	57.8	57.7	57.8
With water-resistant line	er	N/A	N/A	N/A
Thermal Resistance - I	R _{ct} (K.m²/W)	1	2	Average
Without removable liner	S	0.331	0.356	0.344
With water-resistant line	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.

Brand	Alpinestars
Model	Faster V2 Airflow
Туре	Jacket - Leather
Date purchased	3 April 2023
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	J23L07
Rating first published	July 2023
Rating updated	10 July 2023