



This MotoCAP safety rating applies to:

Brand: Alpinestars Model: Atem V3

Type: Jacket - Leather

Date purchased: 18 July 2018

Sizes tested: L
Gender: M
Style: Sports
Test code: J18L05

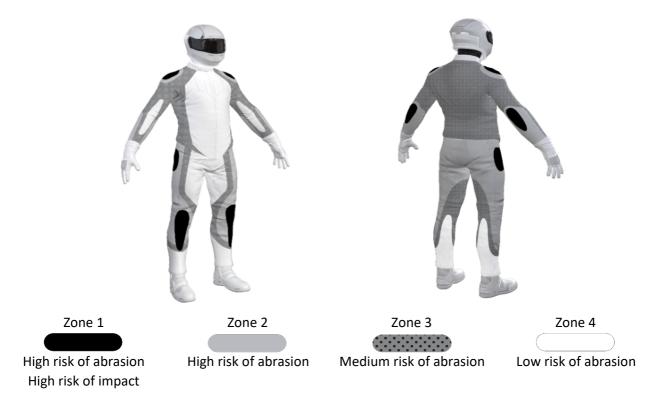
Test Results Summary:

	Rating	Result
MotoCAP Protection Rating	****	57.7
Abrasion	8/10	5.73
Burst	10/10	1330
Impact	7/10	52.4
MotoCAP Comfort Rating	*	0.273
Moisture Vapour Resistance		61.5
Thermal Resistance		0.280
Water Resistance	N/A	

This garment is fitted with impact protectors for the elbows and shoulders, with a pocket provided for the addition of an aftermarket back protector. There are panels of perforated leather on the front of the jacket to aid cooling in hot weather.

Jacket and Pants - Crash Impact Risk Zones

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





Abrasion Resistance

The garment was tested for abrasion resistance following the MotoCAP test protocols. 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.

Details of materials used in garment:

Single layer of stretch leather outer and mesh inner liner Material A:

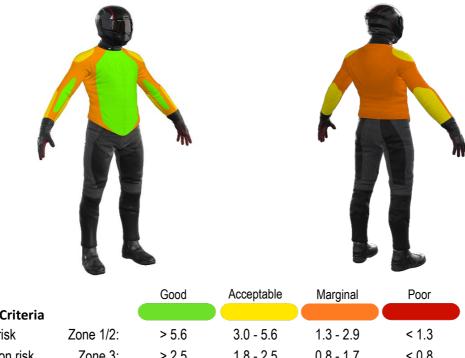
Material B: Single layer of leather outer and mesh inner liner

Material C: Single layer of leather outer and thick 3D mesh inner liner

Material D: Stretch fabric outer and mesh inner liner

Zone	Coverage	Abrasion t	ime for ea	ch test (s)				Average
	(%)	1	2	3	4	5	6	(s)
Zone 1 and 2	areas (High abra	asion risk)						
Material A	10%	10.00	8.41	10.00	9.50	10.00	10.00	9.65 G
Material B	90%	4.29	3.58	4.79	6.08	5.71	5.20	4.94 A
Zone 3 area (Medium abrasio	n risk)						
Fabric C	65%	7.38	7.40	10.00	7.25	7.46	7.01	7.75 G
Fabric D	35%	1.61	1.95	1.37	1.91	1.29	2.11	1.71 M
Zone 4 area (Low abrasion ris	sk)						
Fabric C	90%	7.38	7.40	10.00	7.25	7.46	7.01	7.75 G
Fabric D	10%	1.61	1.95	1.37	1.91	1.29	2.11	1.71 G

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 above.



Zone 1/2:	> 5.6	3.0 - 5.6	1.3 - 2.9	< 1.3
Zone 3:	> 2.5	1.8 - 2.5	0.8 - 1.7	< 0.8
Zone 4:	>1.5	1.0 - 1.5	0.4 - 0.9	< 0.4
	Zone 3:	Zone 3: > 2.5	Zone 3: > 2.5 1.8 - 2.5	Zone 3: > 2.5 1.8 - 2.5 0.8 - 1.7



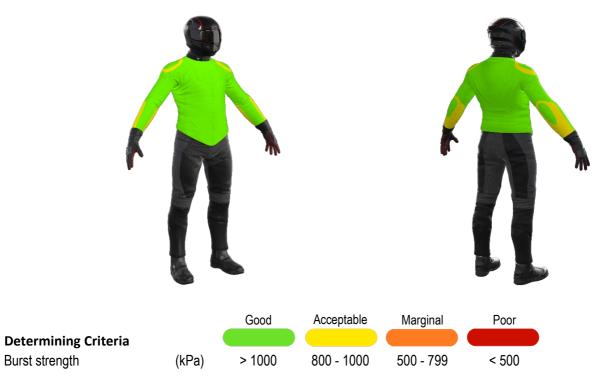
Burst Strength

The garment's burst strength was tested following the MotoCAP test protocols. 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 (kPA)

Area	1	2	3	4	5	Average	:
Zones 1 & 2	1347	1946	883	1942	1661	1555	G
Zone EZ	1374	874	200	1120	870	888	Α
Zones 3 & 4	1928	1967	1597	1459	1876	1766	G

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 above.





Impact Protection

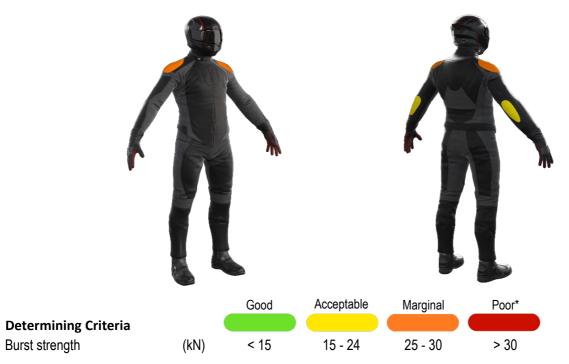
The garment was tested for impact protection and coverage following the MotoCAP test protocols. The table below shows the test results for each strike on each impact protector in kilonewton (kN) and their area of coverage as a proportion (%) of the Zone.

Impact protector type	Elbow		Shoulder	
Average force	18.0	A	20.6	A
Maximum force	23.1	A	26.0	M
Coverage of zone 1 area	120%		120%	•
Coverage of zone after displacement	120%		120%	

Individual test results

Impact force (kN)	Elbow	Shoulder				
Strike location	A	В	С	A	В	С
Impact Protector 1	13.0	13.5	23.1	16.5	20.7	25.9
Impact Protector 2	12.6	19.9	23.0	16.9	17.8	26.0
Impact Protector 3	13.8	21.2	21.7	15.0	20.4	26.0

The diagram below is a visual indication of the likely impact performance of each impact protector calculated from the data in the table above.



^{*} Poor may also indicate that no impact protector, or impact protector pocket is present in the garment



Thermal comfort

The garment was tested for thermal comfort following the MotoCAP test protocols. The table below shows the moisture vapour resistance and the thermal resistance values obtained.

	1	2	Average
Moisture Vapour Resistance - Ret	60.2	62.8	61.5
(kPam²/W)			
	1	2	Average
Thermal Resistance - R _{ct}	0.276	0.284	0.280
(Km²/W)			

Water spray and rain resistance

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

Assessment [Details.
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Brand Alpinestars
Model Atem V3
Type

Type Jacket - Leather Date purchased 18 July 2018

Tested by AMCAF, Deakin University

Garment test reference J18L05
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