



This MotoCAP safety rating applies to:

Brand Argon

Model Forge non perforated
Type Jacket - Leather
Date purchased 1 March 2022
Sizes tested 48 and XL
Test garment gender Male
Style All Purpose
RRP \$399.95

Test Results Summary Rating Score MotoCAP Protection Rating *** 47.4 Abrasion 7/10 4.93 Burst 10/10 1568 23.7 3/10 **Impact** MotoCAP Breathability Rating 0.172 \star Moisture Vapour Resistance 91.6 Thermal Resistance 0.262

N/A

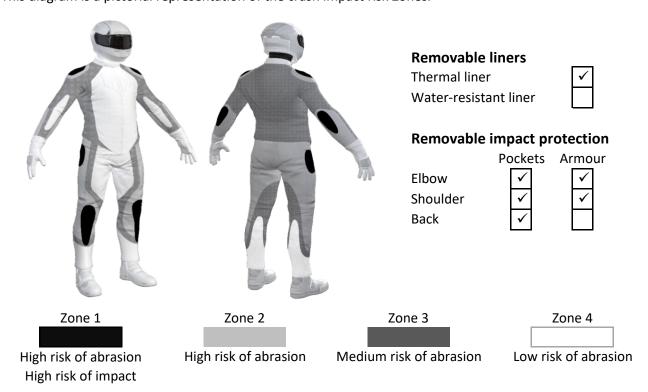
N/A

This garment is fitted with impact protectors for the elbows, shoulders and back. Replacing the elbow and shoulder armour with higher performing impact protectors would improve the protection levels of this garment. There are no vents to allow airflow movement through the garment. Breathability was measured without the removable thermal liner installed.

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 Resistance Performance

Abrasion rating	7/10
Abrasion score	4.93

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)

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Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	3.05	4.04	6.55	4.31	5.64	5.99	4.93	Α
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	<u> </u>
Material A	100%	3.05	4.04	6.55	4.31	5.64	5.99	4.93	G
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	3.05	4.04	6.55	4.31	5.64	5.99	4.93	G

Details of materials used in jacket

Material A Leather 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	1568

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	1366	1637	1839	1137	1999	1624	1600 G	3
Zones 3 & 4	1418	1280	1509	1286	1142	1996	1439 G	3



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 3/10
Impact score 23.7

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

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)	25.7	M	25.4 M
Maximum force (kN)	31.0	Р	28.9 M
Coverage of Zone 1 area	80%	_	100%
Coverage of Zone after displacement	70%		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	lbow Shoulder				
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	24.9	26.1	26.7	22.9	27.9	27.1
Impact Protector 2	22.7	25.2	26.9	23.0	24.5	28.9
Impact Protector 3	23.6	24.1	31.0	25.2	24.0	25.1



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 lin	iers	With	ant liner	
Breathability rating	*	Breat	thability rating	N/A
Breathability score	0.172	Breat	thability score	N/A
Moisture Vapour Resist	ance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liners		90.5	92.6	91.6
With water-resistant liner		N/A	N/A	N/A
Thermal Resistance - R	_{et} (K.m²/W)	1	2	Average
Without removable liners		0.261	0.263	0.262
With water-resistant liner		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.

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

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