

MOTOCAP

	, 0		
Brand	Argon		
Model	Angel I	Ladies	
Туре	Jacket	- Leather	•
Date purchased	29 Jun	e 2023	
Sizes tested	14		
Test garment gender	Female	9	
Style	All Pur	pose	
RRP	\$449.0	0	
Test Results Summary		Rating	Score
Test Results Summary MotoCAP Protection Rati	ng	Rating ★★	Score 34.4
	ng		
MotoCAP Protection Rati	ng	**	34.4
MotoCAP Protection Rati Abrasion	ng	★★ 2/10	34.4 1.77
MotoCAP Protection Rati Abrasion Burst		★★ 2/10 9/10	34.4 1.77 928
MotoCAP Protection Rati Abrasion Burst Impact	ating	★★ 2/10 9/10 7/10	34.4 1.77 928 54.1
MotoCAP Protection Rati Abrasion Burst Impact MotoCAP Breathability R	ating	★★ 2/10 9/10 7/10	34.4 1.77 928 54.1 0.243

N/A

N/A

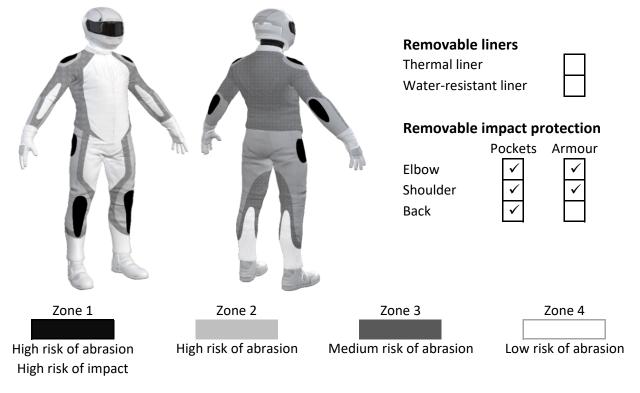
This MotoCAP safety rating applies to:

This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided for an aftermarket back protector. There are no vents 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	Resistance	Performance
Abrasion	rating	2/10

Abrasion rating	2/10
Abrasion score	1.77

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.

Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	80%	2.50	3.41	1.84	2.08	3.22	2.32	2.56	Μ
Material B	20%	1.74	1.55	1.48	1.08	1.09	1.14	1.35	Μ
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	10%	2.50	3.41	1.84	2.08	3.22	2.32	2.56	G
Material B	90%	1.74	1.55	1.48	1.08	1.09	1.14	1.35	Μ
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	1.74	1.55	1.48	1.08	1.09	1.14	1.35	Α

Abrasion time for each test (seconds)

Details of materials used in jacket

Material A	Leather shell, filler layer, mesh layer and mesh inner liner
Material B	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	9/10
Burst score	928

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.

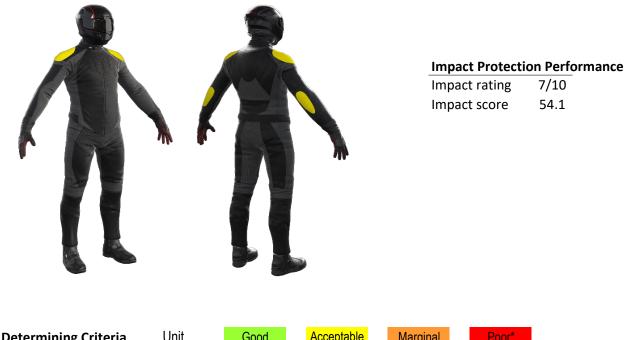
Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Zones 1 & 2	1139	789	1065	1038	602	1322	992	Α
Zones 3 & 4	665	638	749	829	500	645	671	Μ



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.



Determining Criteria	Unit	0000	Acceptable	Marginar	1 001
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)	17.7 /	<mark>4</mark>	15.4	Α
Maximum force (kN)	24.2	<mark>4</mark>	20.7	Α
Coverage of Zone 1 area	140%		105%	
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	11.9	23.5	21.8	10.1	15.5	20.7
Impact Protector 2	13.5	12.9	15.7	12.0	13.7	18.7
Impact Protector 3	17.0	18.6	24.2	12.2	16.4	19.5



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 liners		With water-resistant liner		
Breathability rating	*	Breat	hability rating	N/A
Breathability score	0.243	Breathability score N/A		
Moisture Vapour Resistance - R _{et} (kPa.m ² /W)		1	2	Average
Without removable liner	S	64.9	59.7	62.3
With water-resistant line	r	N/A	N/A	N/A
Thermal Resistance - R _{ct} (K.m²/W)		1	2	Average
Without removable liner	S	0.265	0.240	0.253
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
Model
Туре
Date purchased
Tested by
Report approved by
Garment test reference
Rating first published
Rating updated

Argon Angel Ladies Jacket - Leather 29 June 2023 AMCAF, Deakin University MotoCAP Chief Scientist J23L27 September 2023 15 September 2023