This MotoCAP safety rating applies to:

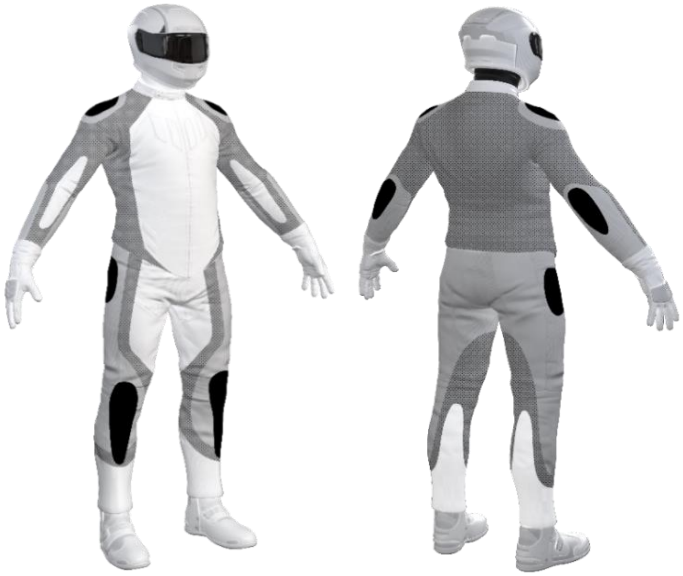
Brand	Argon
Model	Calibre Perforated
Type	Leather Pants
Date purchased	8 May 2024
Sizes tested	36 and 40
Test garment gender	Male
Style	Sports
RRP	$429.95

Test Results Summary	Rating	Score
MotoCAP Protection Rating	★★	41.6
Abrasion	7/10	5.30
Burst	10/10	1508
Impact	1/10	0.0
MotoCAP Breathability Rating	★★	0.304
Moisture Vapour Resistance	-	47.7
Thermal Resistance	-	0.242
Water resistance	N/A	N/A

This garment is fitted with impact protectors for the knees. Pockets are provided at the hips for fitting aftermarket impact protectors. Adding hip impact protectors would improve the protection levels of this garment. Perforated leather is located in the upper legs to allow airflow movement through the garment. A poor impact protector score reduced these pants protection rating from three stars.

Jacket and Pants - Crash Impact Risk Zones

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



Removable liners

Thermal liner	☐
Water-resistant liner	☐

Removable impact protection

	Pockets	Armour
Knee	✓	✓
Hip	✓	☐

Zone 1	Zone 2	Zone 3	Zone 4
High risk of abrasion High risk of impact	High risk of abrasion	Medium risk of abrasion	Low risk of abrasion

Abrasion Resistance

These pants were 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	5.30

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	30%	10.00	10.00	10.00	10.00	10.00	10.00	10.00	G
Material B	70%	6.46	8.13	5.86	2.91	2.07	5.36	5.13	A
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	**Average**	
Material B	60%	6.46	8.13	5.86	2.91	2.07	5.36	5.13	G
Material C	40%	1.09	1.39	0.68	1.22	1.41	0.84	1.10	M
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	**Average**	
Material B	50%	6.46	8.13	5.86	2.91	2.07	5.36	5.13	G
Material C	50%	1.09	1.39	0.68	1.22	1.41	0.84	1.10	A

Details of materials used in pant

Material A	Leather shell, foam layer, fabric layer and mesh inner liner
Material B	Leather shell with mesh inner liner
Material C	Stretch fabric shell with mesh inner liner

Burst Strength

These pants were 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	1508

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	1892	1875	1774	1732	1336	1537	1691	G
Zones 3 & 4	979	843	857	808	378	795	777	M

Impact Protection

These pants were 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	1/10
Impact score	0.0

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	Knee		Hip
Average force (kN)	14.0	G	P
Maximum force (kN)	23.4	A	P
Coverage of Zone 1 area	110%		
Coverage of Zone after displacement	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	Knee			Hip	No impact protector present	
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	9.4	10.3	23.4			
Impact Protector 2	9.3	16.6	20.4			
Impact Protector 3	10.7	13.8	12.5			

Breathability

These pants were 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	★★	Breathability rating	N/A
Breathability score	0.304	Breathability score	N/A

Moisture Vapour Resistance - R_{et} (kPa.m^2/W)	1	2	Average
Without removable liners	48.1	47.4	47.7
With water-resistant liner	N/A	N/A	N/A

Thermal Resistance - R_{ct} (K.m^2/W)	1	2	Average
Without removable liners	0.241	0.243	0.242
With water-resistant liner	N/A	N/A	N/A

Water spray and rain resistance

These pants have not been advertised as water-resistant so has not been tested for water spray and rain resistance.

Assessment Details.

Brand	Argon
Model	Calibre Perforated
Type	Leather Pants
Date purchased	8 May 2024
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	P24L01
Rating first published	July 2024
Rating updated	4 November 2024