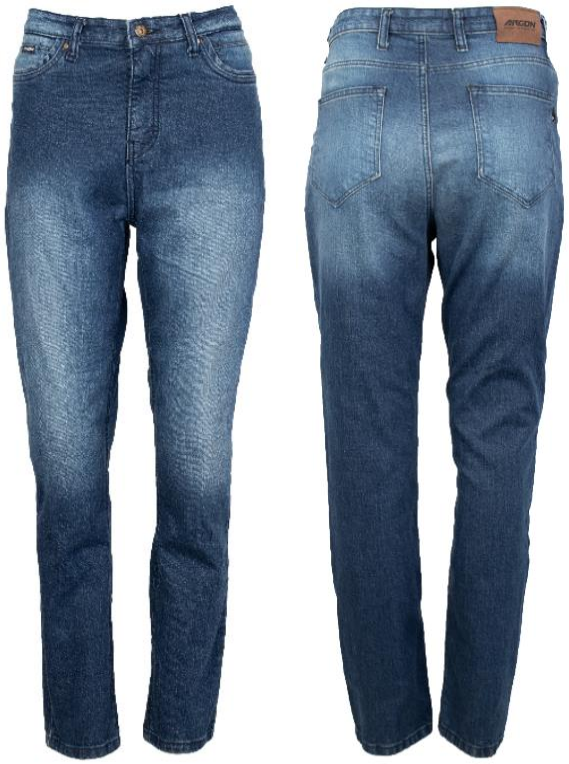


This MotoCAP safety rating applies to:

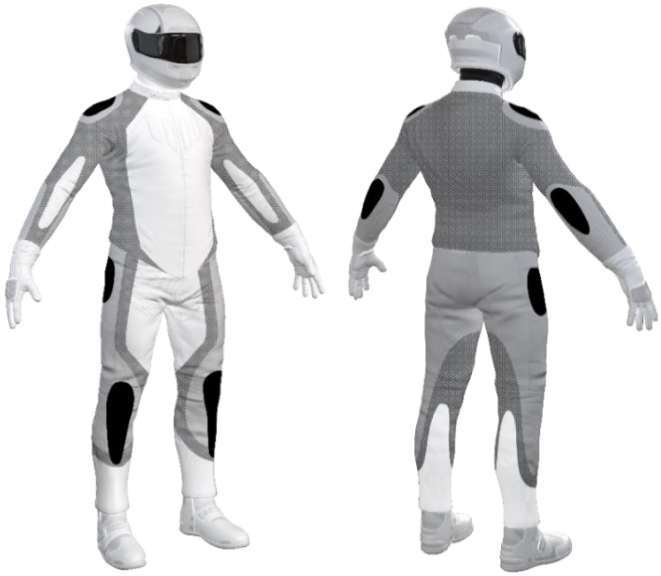
Brand	Argon
Model	Amped
Type	Pants - Denim
Date purchased	24 March 2025
Sizes tested	12 and 14
Test garment gender	Female
Style	All Purpose
RRP	$289.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	★	11.6
Abrasion	1/10	0.61
Burst	8/10	854
Impact	1/10	0.0
MotoCAP Breathability Ratin	★★★	0.441
Moisture Vapour Resistance	-	22.4
Thermal Resistance	-	0.165
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. The knee impact protectors in both test garments contained splits in them. Inspect on purchase and request a replacement if a split impact protector is found. There are no vents to allow airflow movement through the garment. There is the potential for burns from heat transferred through the fly button and pocket rivets of the pants during a slide.

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	☐

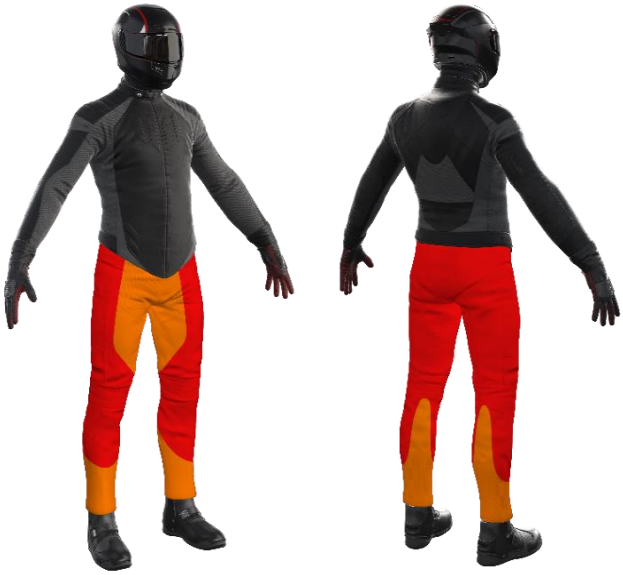
Removable impact protection

	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	1/10
Abrasion score	0.61

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)

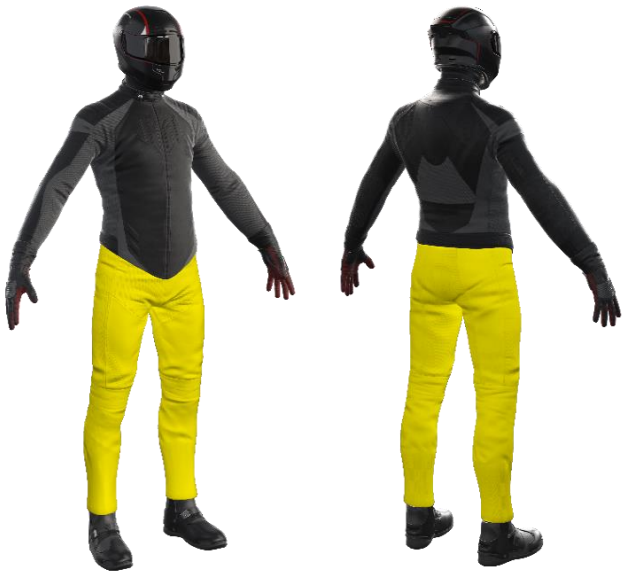
Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	70%	0.85	0.63	0.72	0.86	0.74	0.58	0.73	P
Material B	30%	0.67	0.59	0.55	0.74	0.43	0.49	0.58	P
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	30%	0.85	0.63	0.72	0.86	0.74	0.58	0.73	P
Material B	70%	0.67	0.59	0.55	0.74	0.43	0.49	0.58	P
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	30%	0.85	0.63	0.72	0.86	0.74	0.58	0.73	M
Material B	70%	0.67	0.59	0.55	0.74	0.43	0.49	0.58	M

Details of materials used in pant

Material A	Denim fabric shell with mesh inner liner
Material B	Denim fabric shell

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	8/10
Burst score	854

Determining Criteria	Unit	Good	Acceptable	Marginal	Poor
Burst strength	(kPa)	> 1000	800 - 1000	500 - 799	< 500

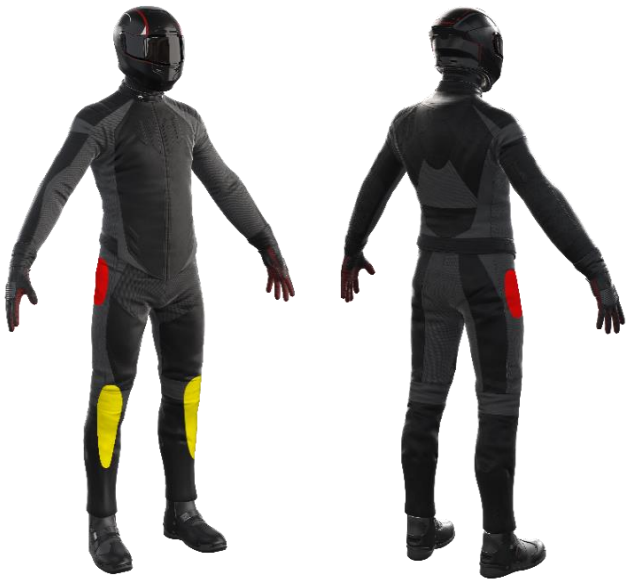
Individual Burst Strength Results: - The table below shows the burst pressure in kilopascals (kPA) for each sample tested by Zone and the average result for each zone.

Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Zones 1 & 2	438	850	1326	974	684	697	828	A
Zones 3 & 4	1091	794	820	1104	850	1043	955	A

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)	13.7	G		P
Maximum force (kN)	21.9	A		P
Coverage of Zone 1 area	90%		0%	
Coverage of Zone after displacement	70%		0%	

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	10.4	13.1	21.9			
Impact Protector 2	11.6	12.4	14.9			
Impact Protector 3	11.6	15.4	11.8			

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	0.441	Breathability score	N/A

Moisture Vapour Resistance - R_{et} (kPa.m^2/W)	1	2	Average
Without removable liners	22.3	22.5	22.4
With water-resistant liner	N/A	N/A	N/A

Thermal Resistance - R_{ct} (K.m^2/W)	1	2	Average
Without removable liners	0.162	0.168	0.165
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 have not been tested for water spray and rain resistance.

Assessment Details.

Brand	Argon
Model	Amped
Type	Pants - Denim
Date purchased	24 March 2025
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	P25D14
Rating first published	June 2025
Rating updated	19 June 2025