

MOTOCAP

Model Type Date purchased Sizes tested Test garment gender Style RRP	Aramada Gortex Pro Jacket - Textile 20 February 2023 XL Male Tourer \$2,299.00				
Test Results Summary		Rating	Score		
MotoCAP Protection Rat	ing	**	35.4		
Abrasion		2/10	1.39		
Burst		8/10	864		
Impact		9/10	66.1		
MotoCAP Breathability R	ating	+	0.112		
Moisture Vapour Resista	nce	-	213.8		

This MotoCAP safety rating applies to:

Richa

Brand

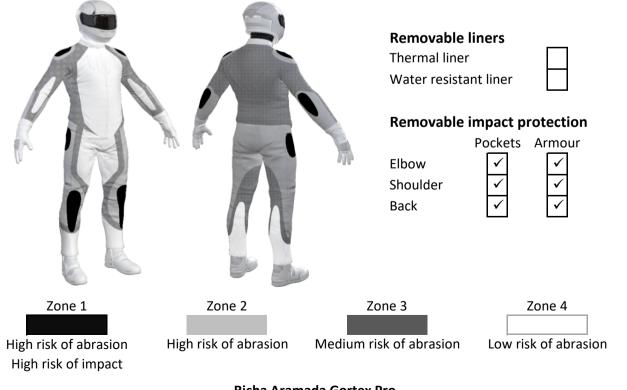
This garment is fitted with impact protectors for the elbows, shoulders and back. Pockets are provided at chests for fitting aftermarket impact protectors. There are zipped vents in the chest, arms and back to allow controlled airflow movement through the garment. The breathability rating is based on tests of the garment's materials when all vents are closed. The breathability of this product may be better when the vents can be opened.

Thermal Resistance

Water resistance

Jacket and Pants - Crash Impact Risk Zones

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



0.399

36.7

1/10



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 rating	2/10
Abrasion score	1.39

Determining Criteria	Area	Good	Acceptable	Marginal	Poor
High abrasion risk	Zone 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)

Zone 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	60%	6.18	8.80	7.74	5.81	11.20	7.94	7.95	G
Material B	40%	1.35	1.11	1.52	1.18	1.10	1.38	1.27	Ρ
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	60%	1.35	1.11	1.52	1.18	1.10	1.38	1.27	Μ
Material C	40%	0.35	0.34	0.34	0.10	0.22	0.11	0.24	Ρ
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	1.35	1.11	1.52	1.18	1.10	1.38	1.27	Α

Details of materials used in jacket

Material A	Superfabric shell laminated with water-resistant layer and fabric inner liner
Material B	Woven fabric shell with fabric inner liner
Material C	Stretch fabric shell with fabric 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 PerformanceBurst rating8/10Burst score864

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.

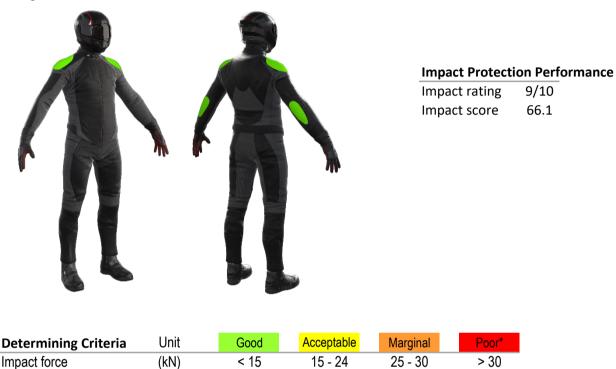
Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Zones 1 & 2	921	549	1449	1109	881	870	963	Α
Zones 3 & 4	311	669	317	513	350	655	469	Ρ



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.



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

Individual Impact Protector Results: - The table below shows the test results for each strike on each impact protector in kilonewtons (kN) and their area of coverage as a proportion (%) of the Zone. Individual strike results are capped at a maximum of 50kN.

Impact protector type	Elbow		Shoulder
Average force (kN)	12.0	G	11.4 G
Maximum force (kN)	13.2	G	12.3 G
Coverage of Zone 1 area	115%		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	10.6	13.1	12.3	11.0	11.2	11.3
Impact Protector 2	11.9	10.7	11.7	11.5	11.9	12.3
Impact Protector 3	11.9	13.2	12.6	11.1	10.6	12.1



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 I	iners	With	n water-resista	ant liner
Breathability rating	*	Brea	thability rating	N/A
Breathability score	0.112	Brea	thability score	N/A
Moisture Vapour Resis	stance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liner	S	213.6	213.9	213.8
With water-resistant line	r	N/A	N/A	N/A
Thermal Resistance - I	R _{ct} (K.m²/W)	1	2	Average
Without removable liner	S	0.397	0.401	0.399
With water-resistant line	r	N/A	N/A	N/A

Water spray and rain resistance

This jacket is advertised as water-resistant, and so has been tested for water spray and rain resistance according to the MotoCAP test protocols. The table below shows the water absorbed (ml) and the wetting proportion (%) of the garment and undergarments due to water absorption.

	Water absorbe	ed by garment	Water absorbed by underwear		
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)	
Jacket 1	347	14%	133	46%	
Jacket 2	285	11%	78	27%	
Average	316	13%	105	37%	

Location of wetting

There was major wetting to the cotton underwear present at the chest for both jackets and at the neck of the first jacket tested.

Assessment Details.

Brand	Richa
Model	Aramada Gortex Pro
Туре	Jacket - Textile
Date purchased	20 February 2023
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	J23T10
Rating first published	July 2023
Rating updated	28 July 2023