

MOTOCAP

Model Type Date purchased Sizes tested	Avventura Jacket - Textile 1 June 2023 L and 2XL	e
Test garment gender	Female	
Style	Tourer	
RRP	\$299.00	
Test Results Summary MotoCAP Protection Rati	Rating ng ★	Score 23.4
	v	
MotoCAP Protection Rati	ng ★	23.4
MotoCAP Protection Rati Abrasion	ng ★ 1/10	23.4 0.83
MotoCAP Protection Rati Abrasion Burst	ng ★ 1/10 10/10 2/10	23.4 0.83 1528
MotoCAP Protection Rati Abrasion Burst Impact	ng ★ 1/10 10/10 2/10 ating ★	23.4 0.83 1528 13.9

This MotoCAP safety rating applies to:

Corazzo Design

1/10

30.3

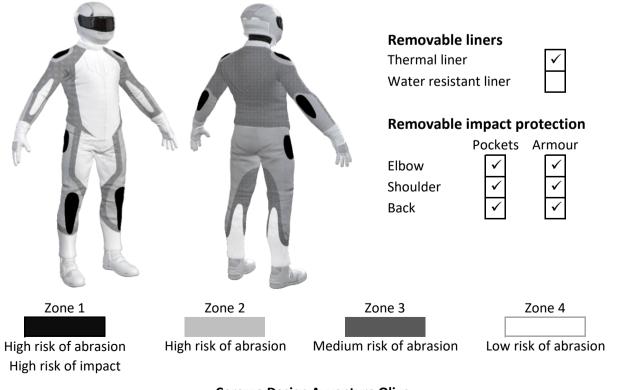
Brand

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 zipped vents under the arms 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. 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.



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	20%	2.89	1.98	1.17	1.13			1.79 M
Material B	80%	0.62	0.67	0.66	0.61	0.75	0.60	0.65 P
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.62	0.67	0.66	0.61	0.75	0.60	0.65 <mark>P</mark>
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.62	0.67	0.66	0.61	0.75	0.60	0.65 M

Details of materials used in jacket

Material AWoven fabric patch over woven fabric shell, water-resistant layer and mesh inner linerMaterial BWoven fabric shell, water-resistant layer and 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.



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.

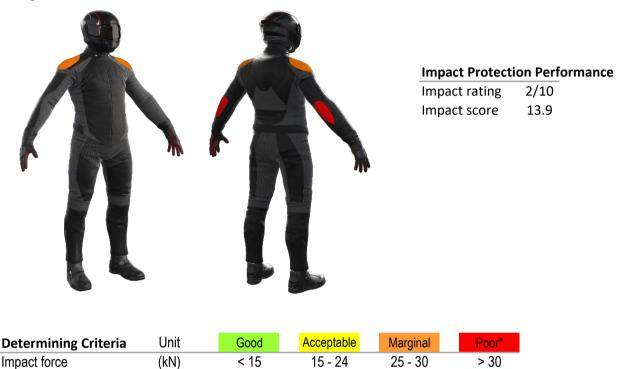
Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Zones 1 & 2	1571	1646	1584	1478	1666	1526	1578	G
Zones 3 & 4	1258	1040	1066	1504	1671	1408	1324	G



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)	28.2	Μ	25.9 M
Maximum force (kN)	42.6	P	29.7 M
Coverage of Zone 1 area	100%		95%
Coverage of Zone after displacement	80%		90%

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	23.7	23.7	42.6	25.3	26.5	28.3
Impact Protector 2	21.8	26.9	37.7	23.2	23.8	29.7
Impact Protector 3	24.5	26.6	26.6	22.8	27.9	25.4



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	With water-resistant liner			
Breathability rating	*	Brea	thability rating	N/A
Breathability score	0.211	Brea	thability score	N/A
Moisture Vapour Resis	stance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liner	S	70.8	73.3	72.0
With water-resistant line	er	N/A	N/A	N/A
Thermal Resistance - I	R _{ct} (K.m²/W)	1	2	Average
Without removable liner	S	0.260	0.247	0.253
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	224	26%	88	31%	
Jacket 2	260	29%	95	30%	
Average	242	27%	92	30%	

Location of wetting

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

Assessment Details.

Brand	Corazzo Design
Model	Avventura
Туре	Jacket - Textile
Date purchased	1 June 2023
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	J23T31
Rating first published	July 2023
Rating updated	31 July 2023