

MOTOCAP

This MotoCAP safety rating applies to:

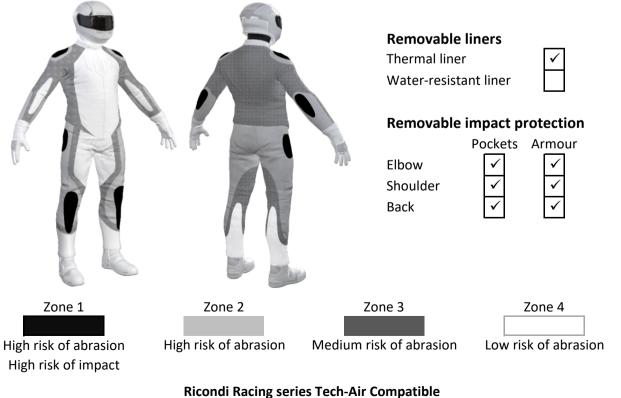
Brand	Ricondi
Model	Racing series Tech-Air Corr
Туре	Jacket - Leather
Date purchased	20 February 2023
Sizes tested	XL and 2XL
Test garment gender	Male
Style	Sports
RRP	\$590.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	**	44.2
Abrasion	8/10	5.61
Burst	10/10	1443
Impact	1/10	5.6
MotoCAP Breathability Rating	*	0.183
Moisture Vapour Resistance	-	97.7
Thermal Resistance	-	0.298
Water resistance	N/A	N/A

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. Mesh panels are located in the chest and arm to allow airflow movement through the garment. Breathability was measured without the removable thermal liner installed.

Jacket and Pants - Crash Impact Risk Zones

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



Ricondi Racing series Tech-Air Compatible Leather Jacket



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	8/10
Abrasion score	5.61

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	50%	10.00	10.00	10.00	10.00	10.00	10.00	10.00 G
Material B	50%	2.00	2.70	5.83	5.18	5.51	5.78	4.50 A
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	70%	2.00	2.70	5.83	5.18	5.51	5.78	4.50 G
Material C	30%	2.01	2.76	2.40	1.90	3.17	2.28	2.42 A
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material C	70%	2.01	2.76	2.40	1.90	3.17	2.28	2.42 G
Material D	30%	0.88	0.92	0.92	0.88	0.69	0.95	0.87 M

Details of materials used in jacket

Material A	Leather shell, leather layer with mesh inner liner
Material B	Leather shell with mesh inner liner
Material C	Perforated leather shell with mesh inner liner
Material D	Stretch fabric 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 PerformanceBurst rating10/10Burst score1443

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.

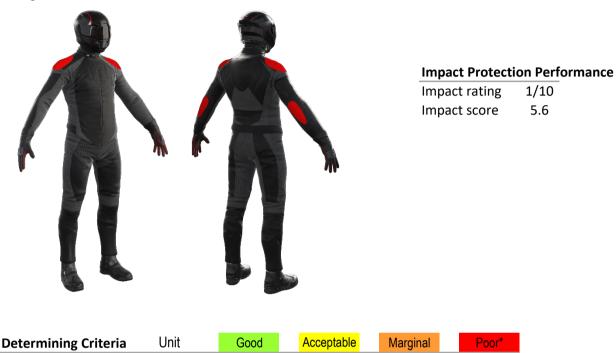
Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Zones 1 & 2	1595	1238	1556	1597	877	1768	1438	G
Zones 3 & 4	800	1410	1508	1762	1352	1930	1460	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

< 15

(kN)

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.

15 - 24

25 - 30

> 30

Impact protector type	Elbow		Shoulder	
Average force (kN)	38.1	P	40.0	Ρ
Maximum force (kN)	41.0	P	41.1	Ρ
Coverage of Zone 1 area	120%		110%	
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	32.5	38.8	38.9	39.2	40.7	41.1
Impact Protector 2	38.5	38.9	38.9	39.9	39.6	40.7
Impact Protector 3	37.7	38.2	41.0	39.0	38.5	41.1

Impact force



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	iners	With	n water-resist	ant liner
Breathability rating	*	Brea	thability rating	N/A
Breathability score	0.183	Brea	N/A	
Moisture Vapour Resi	stance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liner	S	97.2	98.2	97.7
With water-resistant line	N/A	N/A	N/A	
Thermal Resistance -	R _{ct} (K.m²/W)	1	2	Average
Without removable liner	'S	0.295	0.302	0.298
With water-resistant line	Pr	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	Ricondi
Model	Racing series Tech-Air Compatib
Туре	Jacket - Leather
Date purchased	20 February 2023
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	J23L01
Rating first published	April 2023
Rating updated	4 April 2023