

MOTOCAP

4SR	
RTX	
Jacket - Textile	
20 February 20	23
56	
Male	
Sports	
\$299.00	
Rating	Score
Rating ing ★★	Score 34.6
<u> </u>	
ing ★★	34.6
ing ★★ 1/10	34.6 0.87
ing ★★ 1/10 10/10	34.6 0.87 1198
ing ★★ 1/10 10/10 8/10	34.6 0.87 1198 60.9
	Jacket - Textile 20 February 20 56 Male Sports

1/10

60.3

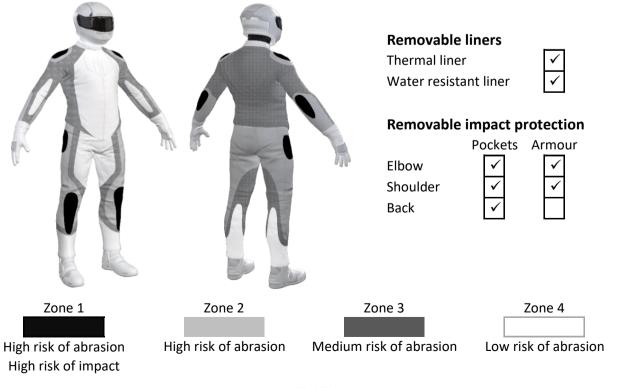
This MotoCAP safety rating applies to:

This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided for an aftermarket back protector. There are zipped vents in the shoulders, 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. This garment has a removable water-resistant liner. The breathability rating above was achieved with the thermal and water-resistant liners removed. When tested with the water-resistant liner installed, the breathability rating reduced but remained within half a star.

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.



Abrasion	Resistance	Performance

Abrasion rating	1/10
Abrasion score	0.87

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	65%	7.33	10.00	10.00	4.92			8.06 G
Material B	35%	0.56	0.53	0.90	0.54	0.62	0.54	0.61 P
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.56	0.53	0.90	0.54	0.62	0.54	0.61 P
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.56	0.53	0.90	0.54	0.62	0.54	0.61 M

Details of materials used in jacket

Material A	Coarse woven fabric shell, foam layer and fabric inner liner
Material B	Woven fabric shell and 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 Strengt	h Performance
Burst rating	10/10
Burst score	1198

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.

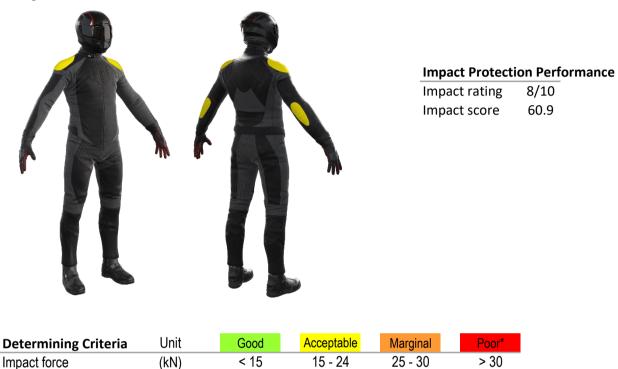
Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Zones 1 & 2	1045	1216	1587	790	1479	1453	1262	G
Zones 3 & 4	691	923	1162	1057	875	943	942	Α



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)	15.0	G	12.0 G
Maximum force (kN)	19.6	A	20.8 A
Coverage of Zone 1 area	130%		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	11.5	16.9	19.5	9.8	11.6	12.8
Impact Protector 2	13.3	10.8	19.6	9.9	10.4	13.1
Impact Protector 3	11.9	17.4	13.8	9.0	10.6	20.8



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	With water-resistant liner				
Breathability rating	1	Brea	Breathability rating		
Breathability score	0.047	Brea	0.026		
Moisture Vapour Resi	stance - R _{et} (kPa.m ² /W)	1	2	Average	
Without removable liner	rs	391.2	379.8	385.5	
With water-resistant line	er	455.5	438.5	447.0	
Thermal Resistance -	R _{ct} (K.m²/W)	1	2	Average	
Without removable liner	rs	0.313	0.294	0.303	
With water-resistant line	er	0.199	0.196	0.197	

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 absorbed by garment		Water absorbed by underwear	
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)
Jacket 1	651	44%	125	44%
Jacket 2	729	49%	218	77%
Average	690	47%	171	60%

Location of wetting

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

Assessment Details.	
Brand	4SR
Model	RTX
Туре	Jacket - Textile
Date purchased	20 February 2023
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	J23T05
Rating first published	March 2023
Rating updated	27 March 2023