

MOTOCAP

This MotoCAP safety rating applies to:

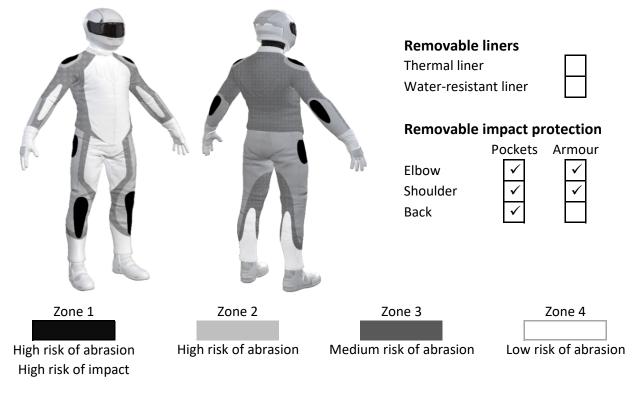
Brand	RST
Model	IOM TT Brandish 2 CE
Туре	Jacket - Leather
Date purchased	29 June 2023
Sizes tested	56
Test garment gender	Male
Style	All Purpose
RRP	\$600.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	****	61.4
Abrasion	9/10	6.67
Burst	10/10	1565
Impact	6/10	41.2
MotoCAP Breathability Rating	**	0.350
Moisture Vapour Resistance	-	44.5
Thermal Resistance	-	0.260
Water resistance	N/A	N/A

This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided for an aftermarket back protector. There are no vents to allow airflow movement through the garment.

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 Resistan	ce Performance
Abrasion rating	9/10

/ 10/ 10/11		5/10
Abrasion	score	6.67

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.

Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	80%	9.25	9.40	6.74	6.41	6.93	6.42	7.52	G
Material B	20%	5.01	7.80	5.63	6.04	4.76	4.95	5.70	G
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	20%	9.25	9.40	6.74	6.41	6.93	6.42	7.52	G
Material B	80%	5.01	7.80	5.63	6.04	4.76	4.95	5.70	G
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	5.01	7.80	5.63	6.04	4.76	4.95	5.70	G

Abrasion time for each test (seconds)

Details of materials used in jacket

Material A	Leather shell, foam layer, mesh layer and fabric inner liner
Material B	Leather 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 rating10/10Burst score1565

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	1584	1584	1604	1777	1328	1856	1622 G	3
Zones 3 & 4	1675	994	1082	1035	1942	1285	1335 G	3



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.



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	Elbow		Shoulder
Average force (kN)	22.0	A	22.0 A
Maximum force (kN)	27.1	Μ	27.1 M
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	otector type Elbow				Shoulder		
Strike location	Centre	Mid	Edge	Centre	Mid	Edge	
Impact Protector 1	17.2	20.4	27.1	17.2	20.4	27.1	
Impact Protector 2	16.7	22.9	22.5	16.7	22.9	22.5	
Impact Protector 3	20.3	26.0	25.3	20.3	26.0	25.3	



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 liners		With water-resistant liner		
Breathability rating	**	Breathability rating N/A		
Breathability score	0.350	Breathability score N/A		
Moisture Vapour Resistance - R _{et} (kPa.m ² /W)		1	2	Average
Without removable liner	S	44.4	44.5	44.5
With water-resistant line	r	N/A	N/A	N/A
Thermal Resistance - R _{ct} (K.m²/W)		1	2	Average
Without removable liner	S	0.264	0.255	0.260
With water-resistant line	r	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	R
Model	IC
Туре	Já
Date purchased	29
Tested by	А
Report approved by	Μ
Garment test reference	Jź
Rating first published	S
Rating updated	1

RST IOM TT Brandish 2 CE Jacket - Leather 29 June 2023 AMCAF, Deakin University MotoCAP Chief Scientist J23L25 September 2023 15 September 2023