This MotoCAP safety rating applies to:

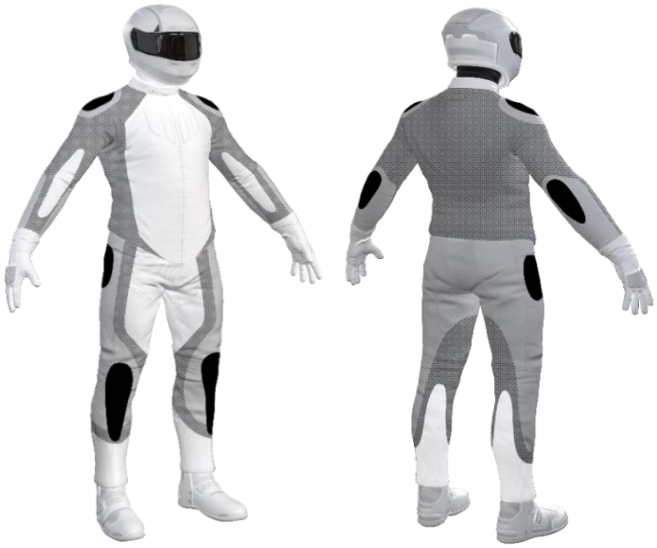
Brand	RST
Model	Kate CE
Type	Leather Jacket
Date purchased	8 May 2024
Sizes tested	9 and 10
Test garment gender	Female
Style	All Purpose
RRP	$549.95

Test Results Summary	Rating	Score
MotoCAP Protection Rating	★★	37.2
Abrasion	5/10	3.82
Burst	9/10	981
Impact	4/10	27.5
MotoCAP Breathability Rating	★	0.238
Moisture Vapour Resistance	-	65.3
Thermal Resistance	-	0.259
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. Replacing the elbow and shoulder armour with higher performing impact protectors would improve the protection levels of this garment. Perforated leather is located in the arms and chest together with a zipped vent in the back to allow 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. There is the potential for burns from heat transferred through the metal snap fasteners on the wrist of the jacket during a slide.

Jacket and Pants - Crash Impact Risk Zones

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



Removable liners

Thermal liner	✓
Water-resistant liner	

Removable impact protection

	Pockets	Armour
Elbow	✓	✓
Shoulder	✓	✓
Back	✓	

Zone 1	Zone 2	Zone 3	Zone 4
High risk of abrasion High risk of impact	High risk of abrasion	Medium risk of abrasion	Low risk of abrasion

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	5/10
Abrasion score	3.82

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	70%	10.00	9.66	2.14	10.00	10.00	3.45	7.54	G
Material B	30%	2.39	1.82	3.05	2.03	2.39	3.84	2.59	M
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	65%	2.39	1.82	3.05	2.03	2.39	3.84	2.59	G
Material C	35%	1.28	1.00	0.98	1.46	1.13	1.04	1.15	M
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	60%	2.39	1.82	3.05	2.03	2.39	3.84	2.59	G
Material C	40%	1.28	1.00	0.98	1.46	1.13	1.04	1.15	A

Details of materials used in jacket

Material A	Quilted leather shell with fabric inner liner
Material B	Leather 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 Performance	
Burst rating	9/10
Burst score	981

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	1404	799	1237	977	826	941	1031	G
Zones 3 & 4	677	545	723	569	1482	685	780	M

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.

Impact Protection Performance	
Impact rating	4/10
Impact score	27.5

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)	24.8	A	24.4	A
Maximum force (kN)	27.2	M	28.2	M
Coverage of Zone 1 area	95%		90%	
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	27.2	24.7	23.2	22.3	23.3	28.2
Impact Protector 2	25.5	24.0	25.3	23.4	23.4	25.6
Impact Protector 3	24.8	23.7	25.1	23.4	25.0	25.2

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	0.238	Breathability score	N/A

Moisture Vapour Resistance - R_{et} (kPa.m^2/W)	1	2	Average
Without removable liners	64.1	66.6	65.3
With water-resistant liner	N/A	N/A	N/A

Thermal Resistance - R_{ct} (K.m^2/W)	1	2	Average
Without removable liners	0.266	0.253	0.259
With water-resistant liner	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	RST
Model	Kate CE
Type	Leather Jacket
Date purchased	8 May 2024
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	J24L17
Rating first published	July 2024
Rating updated	22 July 2024