



This MotoCAP safety rating applies to:

Brand RST Model GT CE

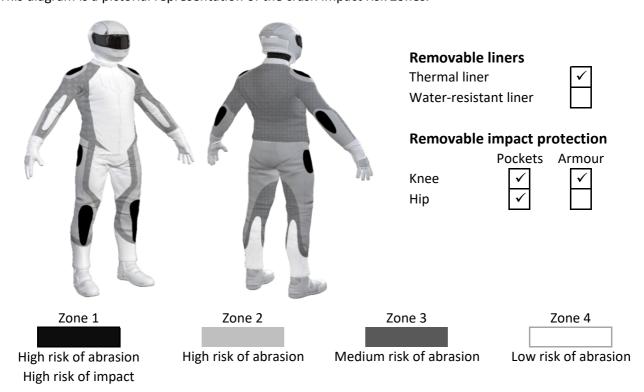
Type Pants - Textile
Date purchased 25 May 2021
Sizes tested 36 and 38
Test garment gender Male
Style All Purpose
RRP NZ \$369.99

Test Results Summary	Rating	Score
MotoCAP Protection Rating	+	12.8
Abrasion	1/10	0.32
Burst	10/10	1115
Impact	1/10	0.0
MotoCAP Breathability Rating	*	0.290
Moisture Vapour Resistance	-	58.9
Thermal Resistance	-	0.285
Water resistance	8/10	2.5

This garment is fitted with impact protectors for the knees. Pockets are provided at the hips for fitting aftermarket impact protectors. Adding hip impact protectors would improve the protection levels of this garment. There are no vents 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.





Abrasion Resistance

These pants were 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	0.32

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)

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Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	60%	3.15	2.69	4.16	4.03			3.51
Material B	40%	0.53	0.49	0.53	0.49	0.53	0.46	0.50
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.53	0.49	0.53	0.49	0.53	0.46	0.50
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.53	0.49	0.53	0.49	0.53	0.46	0.50 N

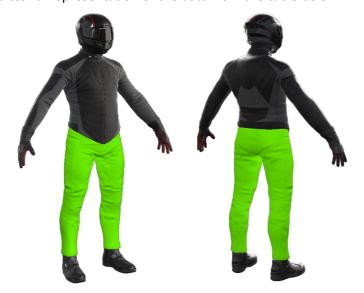
Details of materials used in jacket

Material A	Woven fabric patch over woven fabric shell, foam layer, water-resistant layer and mesh inner liner
Material B	Woven fabric shell, water-resistant layer and mesh inner liner



Burst Strength

These pants were 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	10/10
Burst score	1115

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	582	1173	1061	1002	1011	1686	1086	G
Zones 3 & 4	1090	1521	1110	1750	904	1010	1231	G



Impact Protection

These pants were 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 1/10
Impact score 0.0

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	Knee		Hip
Average force (kN)	11.6	G	P
Maximum force (kN)	14.4	G	Р
Coverage of Zone 1 area	115%		0%
Coverage of Zone after displacement	50%		0%

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	Knee	•		Hip	No impact prot	ector present
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	10.1	10.2	11.1			
Impact Protector 2	10.7	11.2	14.4			
Impact Protector 3	10.8	11.7	14.0			



Breathability

These pants were tested for breathability following the MotoCAP test protocols. The table below shows the moisture vapour resistance and the thermal resistance values obtained.

Without removable lin	With water-resistant liner			
Breathability rating	*	Breat	hability rating	N/A
Breathability score	0.290	Breathability score		N/A
Moisture Vapour Resist	ance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liners		60.1	57.8	58.9
With water-resistant liner		N/A	N/A	N/A
Thermal Resistance - R	ct (K.m²/W)	1	2	Average
Without removable liners		0.269	0.301	0.285
With water-resistant liner		N/A	N/A	N/A

Water spray and rain resistance

This pants are 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 (%)
Pants 1	220	17%	54	20%
Pants 2	166	13%	10	4%
Average	245	19%	7	3%

Location of wetting:

Major wetting to the cotton underwear was present over the waistband and minor wetting on the upper legs of one pant and minor wetting on the crotch of the other pants tested.

Assessment Details.			
Brand	RST		
Model	GT CE		
Туре	Pants - Textile		
Date purchased	25 May 2021		
Tested by	AMCAF, Deakin University		
Garment test reference	P20T08		
Rating first published	October 2021		
Rating updated	11 October 2021		