



This MotoCAP safety rating applies to:

Brand Scott

Model Turn Adv DP
Type Pants - Textile
Date purchased 25 May 2021
Sizes tested XL and 2XL

Test garment gender Male

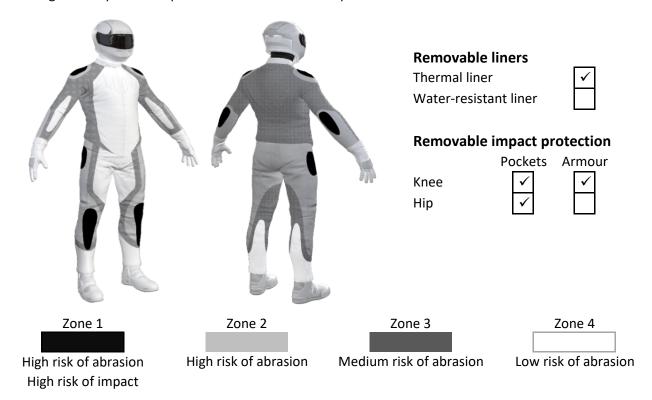
Style All Purpose RRP \$323.10

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	14.3
Abrasion	1/10	0.61
Burst	10/10	1112
Impact	1/10	0.6
MotoCAP Breathability Rating	**	0.379
Moisture Vapour Resistance	-	40.9
Thermal Resistance	-	0.259
Water resistance	8/10	4.0

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 zipped vents in the upper legs 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.

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	0.61

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)

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Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.84		0.53	0.84			0.61 P
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.84	0.37	0.53	0.84	0.53	0.54	0.61 P
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.84	0.37	0.53	0.84	0.53	0.54	0.61 M

Details of materials used in jacket

Material A 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			

1112

Burst score

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	455	1647	866	840	1583	1471	1144	G
Zones 3 & 4	956	972	1465	807	1612	105	986	Α



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 0.6

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)	15.9	A	P
Maximum force (kN)	23.9	A	P
Coverage of Zone 1 area	90%		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)

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Impact protector type	Knee			None	No impact prof	tector present
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	11.6	14.4	23.9			
Impact Protector 2	13.3	14.4	17.4			
Impact Protector 3	12.7	16.4	18.6			



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 li	ners	With water-resistant liner			
Breathability rating ★★		Breat	Breathability rating		
Breathability score	0.379	Breathability score		N/A	
Moisture Vapour Resis	tance - R _{et} (kPa.m²/W)	1	2	Average	
Without removable liners		39.4	42.4	40.9	
With water-resistant liner	•	N/A	N/A	N/A	
Thermal Resistance - R	C _{ct} (K.m²/W)	1	2	Average	
Without removable liners		0.259	0.258	0.259	
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 absorbe	ed by garment	Water absorbed by underwear		
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)	
Pants 1	134	14%	18	7%	
Pants 2	122	13%	2	1%	
Average	128	13%	10	4%	

Location of wetting:

No Visible wetting to the cotton underwear was present for one pair of pants and minor visible wetting on the waistband for the other pair of pants tested.

Assessment Details.

Brand Scott
Model Turn Adv DP
Type Pants - Textile
Date purchased 25 May 2021

Tested by AMCAF, Deakin University

Garment test reference P20T11
Rating first published October 2021
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