



This MotoCAP safety rating applies to:

Brand Scott

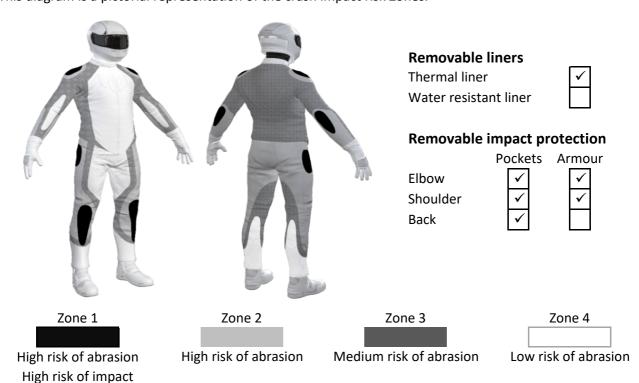
Model Turn ADV DP Ladies
Type Jacket - Textile
Date purchased 9 March 2020
Sizes tested 42 and 44
Test garment gender Female
Style Tourer
RRP \$449.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	25.7
Abrasion	1/10	0.30
Burst	10/10	1563
Impact	4/10	28.5
MotoCAP Breathability Rating	*	0.249
Moisture Vapour Resistance	-	73.7
Thermal Resistance	-	0.305
Water resistance	1/10	117.1

This garment is fitted with impact protectors for the elbows and shoulders. Replacing the elbow and shoulder armour with higher performing impact protectors would improve the protection levels of this garment. There are zipped vents in the chest, lower 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. 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

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	0.30

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)

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Zone 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	60%	3.20	3.13	5.44	3.40	0.00	0.00	3.79	Α
Material B	40%	0.57	0.48	0.58	0.47	0.46	0.43	0.50	Р
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	0.57	0.48	0.58	0.47	0.46	0.43	0.50	Р
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	0.57	0.48	0.58	0.47	0.46	0.43	0.50	M

Details of materials used in jacket

Material A	Waxed textile fabric shell, water-resistant layer and mesh inner liner
Material B	Textile fabric shell, water-resistant layer and mesh 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	10/10
Burst score	1563

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	837	1524	1803	1944	1942	1659	1618	G
Zones 3 & 4	1894	1612	1882	925	793	963	1345	G



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 maximium force for each impact zone. Areas shaded black are not considered for impact protection ratings.



Impact Protection Performance
Impact rating 4/10
Impact score 28.5

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

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)	16.8	A	16.8 A
Maximum force (kN)	27.6	M	27.6 M
Coverage of Zone 1 area	70%		100%
Coverage of Zone after displacement	50%		80%

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	11.4	14.6	27.6	11.4	14.6	27.6
Impact Protector 2	12.9	16.8	18.5	12.9	16.8	18.5
Impact Protector 3	14.0	15.7	19.4	14.0	15.7	19.4



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 li	With water-resistant liner			
Breathability rating	*	Breat	thability rating	N/A
Breathability score	0.249	Breat	N/A	
Moisture Vapour Resis	tance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liners	3	74.5	72.9	73.7
With water-resistant lines	-	N/A	N/A	N/A
Thermal Resistance - R	R _{ct} (K.m²/W)	1	2	Average
Without removable liners	3	0.303	0.308	0.305
With water-resistant line		N/A	N/A	N/A

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 (%) by weight 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	3165	172%	427	147%
Jacket 2	685	46%	245	87%
Average	1925	109%	336	117%

Location of wetting

There was major wetting to the cotton underwear present at the neck and chest for one jacket and at the neck, chest and back of the other jacket tested.

Assessment Details.			
Brand	Scott		
Model	Turn ADV DP Ladies		
Туре	Jacket - Textile		
Date purchased	9 March 2020		
Tested by	AMCAF, Deakin University		
Garment test reference	J19T46		
Rating first published	October 2020		
Rating updated	15 October 2020		