



This MotoCAP safety rating applies to:

Brand Scott

Model Storm DP

Type Pants - Textile

Date purchased 9 March 2020

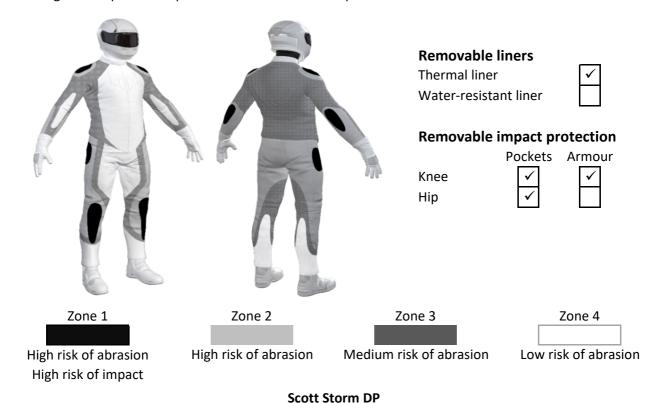
Sizes tested 2XL
Test garment gender Male
Style All Purpose
RRP \$269.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	18.3
Abrasion	1/10	0.87
Burst	10/10	1392
Impact	1/10	0.0
MotoCAP Breathability Rating	***	0.428
Moisture Vapour Resistance	-	39.2
Thermal Resistance	-	0.280
Water resistance	9/10	2.4

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 vents in the upper legs to allow airflow movement through the garment. The breathability rating is based on tests of the breathability of the garment 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	0.87

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%	0.79	0.53	1.02	1.10	0.86	0.96	0.87	Р
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	0.79	0.53	1.02	1.10	0.86	0.96	0.87	M
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	0.79	0.53	1.02	1.10	0.86	0.96	0.87	M

Details of materials used in jacket

Material A Woven fabric shell, water-resistance 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	1392

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	1206	1884	836	1420	1593	1479	1403	G
Zones 3 & 4	1637	1320	1678	1137	1326	982	1347	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 maximium 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)	17.1	A	Р
Maximum force (kN)	26.3	M	Р
Coverage of Zone 1 area	95%	<u>—</u>	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 prof	ector present
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	11.9	14.5	19.8			
Impact Protector 2	14.7	16.2	26.3			
Impact Protector 3	0.0	14.0	0.0			



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 li	With water-resistant liner				
Breathability rating	Breat	N/A			
Breathability score	0.428	Breathability score		N/A	
Moisture Vapour Resis	tance - R _{et} (kPa.m²/W)	1	2	Average	
Without removable liners	3	47.2	31.3	39.2	
With water-resistant line	r	N/A	N/A	N/A	
Thermal Resistance - F	R _{ct} (K.m²/W)	1	2	Average	
Without removable liners	3	0.280	0.281	0.280	
With water-resistant line	r	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	273	24%	7	2.7%	
Pants 2	448	39%	5	2.0%	
Average	240	32%	4	2.4%	

Location of wetting

There was no visible wetting to the cotton underwear for either pants tested.

Assessment Details.	
Brand	Scott
Model	Storm DP
Туре	Pants - Textile
Date purchased	9 March 2020
Tested by	AMCAF, Deakin University
Garment test reference	P19T14
Rating first published	September 2020
Rating updated	4 September 2020