



This MotoCAP safety rating applies to:

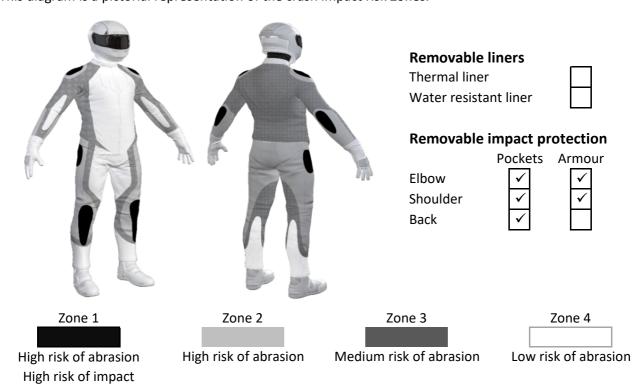
Brand MotoDry Model **Eco-Therm** Type Jacket - Textile Date purchased 17 May 2021 Sizes tested XL and 2XL Test garment gender Male Style Sports RRP \$179.95

Test Results Summary	Rating	Score
MotoCAP Protection Rating	**	35.4
Abrasion	3/10	2.48
Burst	10/10	1485
Impact	4/10	27.1
MotoCAP Breathability Rating	+	0.155
Moisture Vapour Resistance	-	135.7
Thermal Resistance	-	0.351
Water resistance	8/10	2.8

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. There are no vents to allow airflow movement through the garment.

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	3/10
Abrasion score	2.48

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)

, 1101 di G1011 di 11110	101 041011 1001 (001	, ,							
Zone 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	4.12	3.02	N/A	2.46	2.26	5.93	3.56	Α
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	1.01	0.71	0.66	1.17	0.68	0.93	0.86	M
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	<u> </u>
Material B	100%	1.01	0.71	0.66	1.17	0.68	0.93	0.86	M

Details of materials used in jacket

Material A	Woven fabric shell, non-woven layer, water-resistant layer, mesh-layer and fabric inner liner
Material B	Woven fabric shell, non-woven layer, water-resistant layer and 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	10/10
Burst score	1485

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	1481	1587	1058	1950	1304	1945	1554	G
Zones 3 & 4	1247	915	1473	1493	957	1157	1207	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 maximum force for each impact zone. Areas shaded black are not considered for impact protection ratings.



Impact Protection Performance
Impact rating 4/10

27.1

Impact score

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)	25.3	M	26.7 M
Maximum force (kN)	31.9	Р	30.9 P
Coverage of Zone 1 area	110%		100%
Coverage of Zone after displacement	90%		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	21.5	22.1	31.9	24.3	25.5	26.1
Impact Protector 2	23.6	23.0	26.6	26.2	25.8	30.9
Impact Protector 3	24.5	25.9	28.5	26.8	28.5	26.8



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 line	With water-resistant liner				
Breathability rating		Breat	N/A N/A		
Breathability score	0.155	Breathability score			
Moisture Vapour Resista	nce - R _{et} (kPa.m²/W)	1	2	Average	
Without removable liners		135.0	136.4	135.7	
With water-resistant liner		N/A	N/A	N/A	
Thermal Resistance - R _{cf}	(K.m²/W)	1	2	Average	
Without removable liners		0.328	0.373	0.351	
With water-resistant liner		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 (%) 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	172	12%	4	1%
Jacket 2	112	8%	12	4%
Average	142	10%	8	3%

Location of wetting

Minor visible wetting to the cotton underwear was present at the neck of one of the jackets tested.

Assessment Details.		
Brand	MotoDry	
Model	Eco-Therm	
Туре	Jacket - Textile	
Date purchased	17 May 2021	
Tested by	AMCAF, Deakin University	
Report approved by	MotoCAP Chief Scientist	
Garment test reference	J20T27	
Rating first published	October 2021	
Rating updated	12 November 2021	