



This MotoCAP safety rating applies to:

Brand MotoDry

Model 4 Seasons Woman
Type Textile Jacket
Date purchased 22 January 2024
Sizes tested 12 and 16

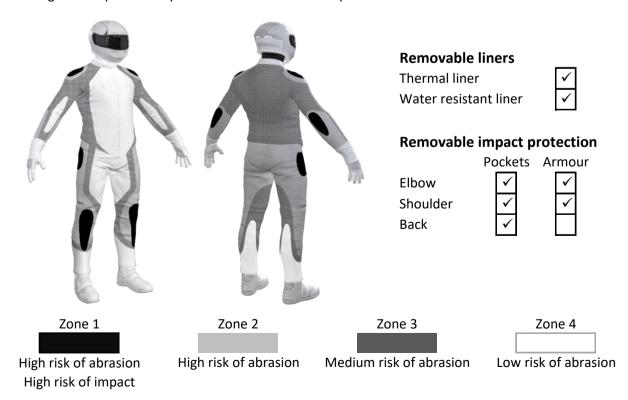
Sizes tested 12 and 16
Test garment gender Female
Style All Purpose
RRP \$249.95

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	18.3
Abrasion	1/10	0.41
Burst	10/10	1191
Impact	2/10	14.5
MotoCAP Breathability Rating	+	0.085
Moisture Vapour Resistance	-	169.0
Thermal Resistance	-	0.238
Water resistance	1/10	25.7

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. Mesh panels are located in the arms, chest and back to allow airflow movement through the garment. This garment has a removable water-resistant liner. The breathability rating above was achieved with the thermal and water-resistant liners removed. When tested with the water-resistant liner installed, the breathability rating reduced but remained within half a star.

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	0.41

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)

Zone 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	65%	4.08	2.23	4.76	1.91			3.24 A
Material B	35%	0.56	0.29	0.32	0.32	0.26	0.29	0.34 P
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	35%	0.56	0.29	0.32	0.32	0.26	0.29	0.34 P
Material C	65%	0.82	0.49	0.50	0.60	0.50	0.46	0.56 P
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	55%	0.56	0.29	0.32	0.32	0.26	0.29	0.34 P
Material C	45%	0.82	0.49	0.50	0.60	0.50	0.46	0.56 M

Details of materials used in jacket

Material A	Woven fabric shell, quilted layer with mesh inner liner
Material B	Woven fabric shell with mesh inner liner
Material C	Mesh fabric shell with 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
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Burst rating	10/10
Burst score	1191

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	1300	1004	1259	1086	1234	1249	1188 G	
Zones 3 & 4	1159	1258	1428	1077	1642	645	1201 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	2/10
Impact score	14.5

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)	29.1	M	32.3	Р
Maximum force (kN)	39.3	P	40.8	Р
Coverage of Zone 1 area	120%	_	100%	
Coverage of Zone after displacement	90%		100%	

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	21.7	25.6	31.7	27.9	30.1	38.3
Impact Protector 2	23.7	28.6	39.3	27.4	29.7	30.0
Impact Protector 3	25.7	31.4	34.5	31.4	35.3	40.8



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	liners	With	n water-resista	ant liner
Breathability rating		Brea	thability rating	7
Breathability score	0.085	Brea	thability score	0.035
Moisture Vapour Resi	stance - R _{et} (kPa.m²/W)	1	2	Average
Without removable line	rs	172.3	165.6	169.0
With water-resistant line	er	585.1	616.3	600.7
Thermal Resistance -	R_{ct} (K.m 2 /W)	1	2	Average
Without removable line	rs	0.236	0.241	0.238
With water-resistant line	er	0.346	0.357	0.351

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 absorb	ed by garment	Water absorbed by underwear		
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)	
Jacket 1	623	43%	54	19%	
Jacket 2	577	40%	92	32%	
Average	600	41%	73	26%	

Location of wetting

There was major wetting to the cotton underwear present at the cuffs of the sleeves of both jackets tested and major wetting to the cotton underwear present on the chest of one of the jackets tested.

Assessment Details.

Brand MotoDry

Model 4 Seasons Woman
Type Textile Jacket
Date purchased 22 January 2024

Tested by AMCAF, Deakin University Report approved by MotoCAP Chief Scientist

Garment test reference J24T23
Rating first published May 2024
Rating updated 18 October 2024