



#### This MotoCAP safety rating applies to:

Brand Motodry

Model Ladies Kevl-ar Hoody

Type Jacket - Textile
Date purchased 13 March 2020
Sizes tested 12 and 18
Test garment gender Female
Style Streetwear

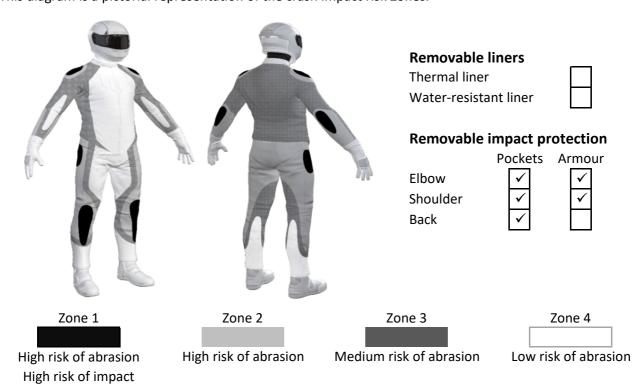
RRP \$199.95

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	21.0
Abrasion	1/10	0.79
Burst	9/10	980
Impact	3/10	24.0
MotoCAP Breathability Rating	*	0.208
Moisture Vapour Resistance	-	78.9
Thermal Resistance	-	0.274
Water resistance	N/A	N/A

This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided for an aftermarket back protector. 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	1/10
Abrasion score	0.79

<b>Determining Criteria</b>	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)

Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	80%	1.35	1.07	0.96	1.51	1.09	1.05	1.17	Р
Material B	20%	0.55	0.47	0.29	0.37	0.46	0.45	0.43	Р
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	90%	1.35	1.07	0.96	1.51	1.09	1.05	1.17	М
Material B	10%	0.55	0.47	0.29	0.37	0.46	0.45	0.43	Р
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	0.55	0.47	0.29	0.37	0.46	0.45	0.43	М

#### Details of materials used in jacket

Material A Knitted fabric	shell, aramid fabric	layer and fabric inner liner
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Material B Knitted fabric shell with 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	9/10
Burst score	980

<b>Determining Criteria</b>	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	1199	785	1167	1147	780	785	977	Α
Zones 3 & 4	942	895	869	1291	1164	781	990	Α



#### **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 3/10
Impact score 24.0

<b>Determining Criteria</b>	Unit	Good	Acceptable	Marginal	Poor*
Impact force	(kN)	< 15	15 - 24	25 - 30	> 30

<sup>\*</sup> 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	Elbow		Shoulder
Average force (kN)	26.4	M	24.0 A
Maximum force (kN)	37.0	Р	27.6 M
Coverage of Zone 1 area	110%		100%
Coverage of Zone after displacement	100%		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	35.1	26.6	28.2	22.3	24.3	25.1
Impact Protector 2	17.8	23.3	24.1	21.4	22.4	23.7
Impact Protector 3	21.2	24.8	37.0	23.1	26.4	27.6



## **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 lin	ners	With water-resistant liner				
Breathability rating	*	Breat	N/A			
Breathability score	0.208	Breat	N/A			
Moisture Vapour Resist	ance - R <sub>et</sub> (kPa.m²/W)	1	2	Average		
Without removable liners		73.3	84.5	78.9		
With water-resistant liner		N/A	N/A	N/A		
Thermal Resistance - R	ct (K.m²/W)	1	2	Average		
Without removable liners		0.274	0.273	0.274		
With water-resistant liner		N/A	N/A	N/A		

## Water spray and rain resistance

This jacket has not been advertised as water-resistant so has not been tested for water spray and rain resistance.

## **Assessment Details.**

Brand Motodry

Model Ladies Kevl-ar Hoody
Type Jacket - Textile
Date purchased 13 March 2020

Tested by AMCAF, Deakin University

Garment test reference J19T44
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