



This MotoCAP safety rating applies to:

Brand Rideract

Model Riding Reinforced Hoodie

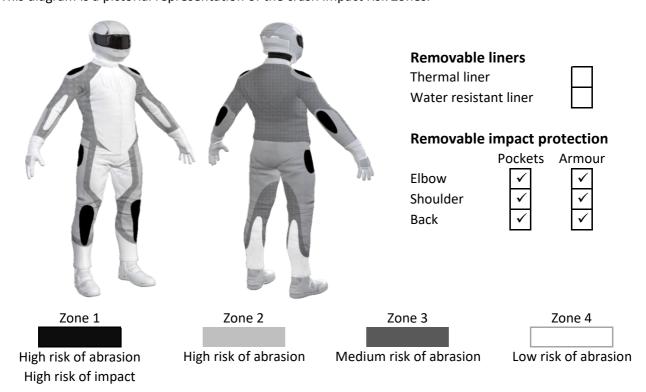
Type Jacket - Textile
Date purchased 1 June 2023
Sizes tested L and 3XL
Test garment gender Male
Style Streetwear
RRP \$199.99

Test Results Summary	Rating	Score
MotoCAP Protection Rating	+	9.3
Abrasion	1/10	0.36
Burst	7/10	753
Impact	1/10	0.0
MotoCAP Breathability Rating	+	0.127
Moisture Vapour Resistance	-	110.1
Thermal Resistance	-	0.232
Water resistance	N/A	N/A

This garment is fitted with impact protectors for the elbows, shoulders and back. The limb impact protectors in this garment were found to provide negligible impact protection. 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	1/10
Abrasion score	0.36

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	50%	2.64	2.50	1.86	1.83	4.29	3.36	2.75	М
Material B	50%	0.70	0.66	0.65	0.75	0.87	0.81	0.74	Р
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	0.70	0.66	0.65	0.75	0.87	0.81	0.74	Р
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	0.70	0.66	0.65	0.75	0.87	0.81	0.74	М

Details of materials used in jacket

Material A	Quilted fleece shell, p-aramid fabric layer and mesh inner liner
Material B	Fleece shell, p-aramid fabric 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	7/10
Burst score	753

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	762	800	899	880	785	642	795 M
Zones 3 & 4	589	639	539	563	641	556	588 M



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 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

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)	50.0 P	50.0 P
Maximum force (kN)	50.0 P	50.0 P
Coverage of Zone 1 area	120%	120%
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	50.0	50.0	50.0	50.0	50.0	50.0
Impact Protector 2	50.0	50.0	50.0	50.0	50.0	50.0
Impact Protector 3	50.0	50.0	50.0	50.0	50.0	50.0



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	With water-resistant liner				
Breathability rating		Breathability rating			
Breathability score	0.127	Breat	N/A		
Moisture Vapour Resist	tance - R _{et} (kPa.m²/W)	1	2	Average	
Without removable liners		112.0	108.2	110.1	
With water-resistant liner		N/A	N/A	N/A	
Thermal Resistance - R	ct (K.m²/W)	1	2	Average	
Without removable liners		0.230	0.234	0.232	
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 Rideract

Model Riding Reinforced Hoodie

Type Jacket - Textile
Date purchased 1 June 2023

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

Garment test reference J23T33

Rating first published September 2023
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