



This MotoCAP safety rating applies to:

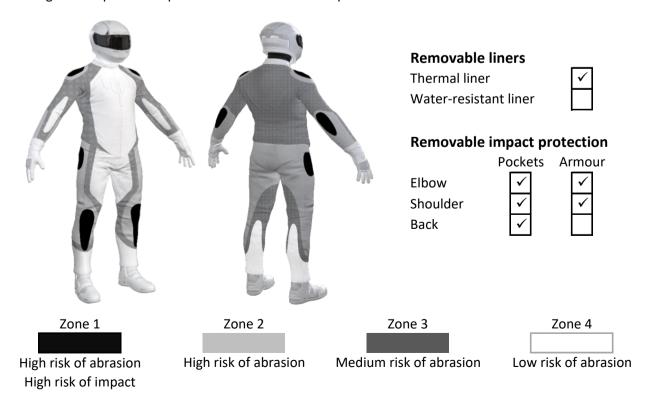
Brand Bikers Gear Model **Premium Nubuck** Type Jacket - Leather Date purchased 19 August 2023 Sizes tested XL and 2XL Male Test garment gender Style All Purpose RRP \$349.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	**	36.6
Abrasion	4/10	3.11
Burst	10/10	1332
Impact	4/10	25.7
MotoCAP Breathability Rating	*	0.182
Moisture Vapour Resistance	-	97.4
Thermal Resistance	-	0.296
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. Replacing the elbow and shoulder armour with higher performing impact protectors would improve the protection levels of this garment. There are zipped vents in the upper chest and front of upper arms to allow controlled airflow movement through the garment. The breathability rating is based on tests of the garment's materials when all vents are closed. The breathability of this product may be better when the vents can be opened. Breathability was measured without the removable thermal liner installed.

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	4/10
Abrasion score	3.11

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	80%	5.27	4.55	4.92	3.75	6.68	5.54	5.12	Α
Material B	20%	1.98	2.42	1.77	1.89	1.78	1.50	1.89	М
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	10%	5.27	4.55	4.92	3.75	6.68	5.54	5.12	G
Material B	90%	1.98	2.42	1.77	1.89	1.78	1.50	1.89	Α
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	1.98	2.42	1.77	1.89	1.78	1.50	1.89	G
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Details of materials used in jacket

Material A	Leather shell with mesh inner liner
Material B	Suede leather 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					
Burst rating	10/10				
Rurst score	1332				

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	1160	1056	1675	1828	1272	1594	1431	G
Zones 3 & 4	1036	1082	984	740	700	1087	938	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 maximum force for each impact zone. Areas shaded black are not considered for impact protection ratings.



Impact Protection Performance Impact rating 4/10 Impact score 25.7

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	Elbow	Shoulder
Average force (kN)	25.2 M	25.5 M
Maximum force (kN)	31.1 P	36.1 P
Coverage of Zone 1 area	120%	110%
Coverage of Zone after displacement	80%	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	20.2	22.2	31.1	21.7	27.2	36.1	
Impact Protector 2	20.4	24.8	29.8	20.6	22.6	29.2	
Impact Protector 3	22.9	25.5	29.9	22.9	22.6	26.9	



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	rs	With	water-resista	int liner
Breathability rating	*	Breat	hability rating	N/A
Breathability score	0.182	Breat	hability score	N/A
Moisture Vapour Resistar	nce - R _{et} (kPa.m²/W)	1	2	Average
Without removable liners		100.4	94.4	97.4
With water-resistant liner		N/A	N/A	N/A
Thermal Resistance - R _{ct}	(K.m²/W)	1	2	Average
Without removable liners		0.301	0.291	0.296
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 Bikers Gear
Model Premium Nubuck
Type Jacket - Leather
Date purchased 19 August 2023

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

Garment test reference J24L01

Rating first published November 2023
Rating updated 1 November 2024