


This MotoCAP safety rating applies to:

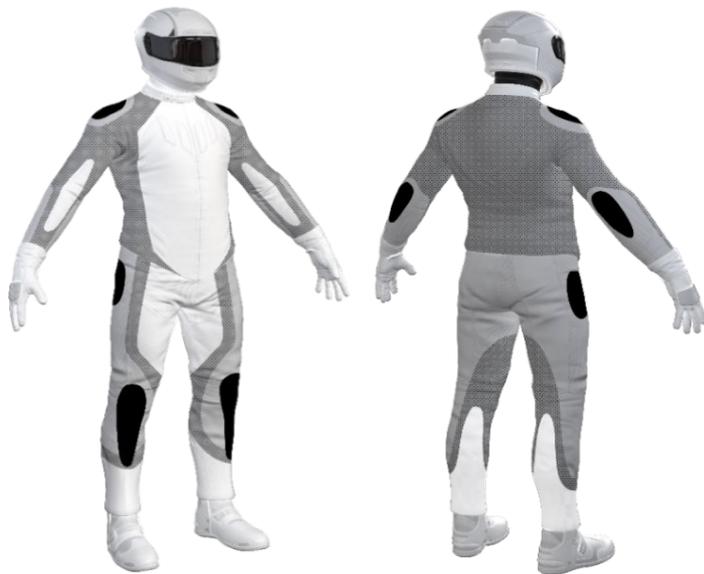
Brand	Neo
Model	Chopper
Type	Jacket - Leather
Date purchased	25 May 2021
Sizes tested	XL
Test garment gender	Male
Style	Cruiser
RRP	\$365.65

Test Results Summary	Rating	Score
MotoCAP Protection Rating	★★	44.4
Abrasion	8/10	5.65
Burst	10/10	1617
Impact	0/10	0.0
MotoCAP Breathability Rating	★	0.195
Moisture Vapour Resistance	-	111.8
Thermal Resistance	-	0.363
Water resistance	N/A	N/A

This garment is not fitted with impact protectors. There are no pockets provided at the shoulders, elbows or back for fitting aftermarket impact protectors. 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.



Zone 1

 High risk of abrasion
 High risk of impact

Zone 2

 High risk of abrasion

Zone 3

 Medium risk of abrasion

Zone 4

 Low risk of abrasion

Removable liners

Thermal liner

Water-resistant liner


Removable impact protection

Pockets

Armour

Elbow

Shoulder

Back



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	8/10
Abrasion score	5.65

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)

Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	9.27	4.97	5.07	5.04	3.88	5.68	5.65	G
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	9.27	4.97	5.07	5.04	3.88	5.68	5.65	G
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	9.27	4.97	5.07	5.04	3.88	5.68	5.65	G

Details of materials used in jacket

Material A	Leather shell with quilted inner liner
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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	1617

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	1346	1956	1940	1566	1486	1604	1650	G
Zones 3 & 4	1252	1727	1593	1622	1837	883	1486	G

Impact Protection

This jacket was not tested for impact protection as impact protectors were not provided with the garment. 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	0/10
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

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)			P			P
Maximum force (kN)			P			P
Coverage of Zone 1 area		0%			0%	
Coverage of Zone after displacement		0%			0%	

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		
	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1						
Impact Protector 2						
Impact Protector 3						

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 water-resistant liner	
Breathability rating	★	Breathability rating	N/A
Breathability score	0.195	Breathability score	N/A

Moisture Vapour Resistance - R_{et} (kPa.m ² /W)	1	2	Average
Without removable liners	112.5	111.1	111.8
With water-resistant liner	N/A	N/A	N/A
Thermal Resistance - R_{ct} (K.m ² /W)	1	2	Average
Without removable liners	0.364	0.362	0.363
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	Neo
Model	Chopper
Type	Jacket - Leather
Date purchased	25 May 2021
Tested by	AMCAF, Deakin University
Garment test reference	J20L19
Rating first published	October 2021
Rating updated	11 October 2021