

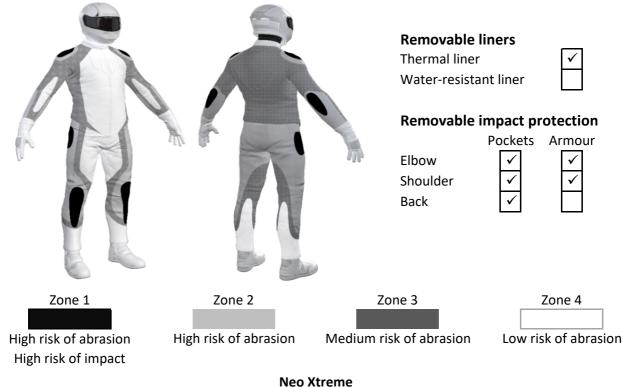
MOTOCAP

This MotoCAP safety	y rating applie	s to:
Brand	Neo	
Model	Xtreme	
Туре	Jacket - Textil	e
Date purchased	9 March 2020	1
Sizes tested	XL and 2XL	
Test garment gender	Male	
Style	All Purpose	
	6200.00	
RRP	\$299.00	0
Test Results Summary	Rating	Score
	Rating	
Test Results Summary MotoCAP Protection Rati	Rating ng ★★	32.0
Test Results Summary MotoCAP Protection Rati Abrasion	Rating ng ★★ 2/10	32.0 1.57
Test Results Summary MotoCAP Protection Rati Abrasion Burst Impact	Rating ng ★★ 2/10 10/10 4/10	32.0 1.57 1524
Test Results Summary MotoCAP Protection Rati Abrasion Burst	Rating ng ★ ★ 2/10 10/10 4/10 ating ✔	32.0 1.57 1524 29.8
Test Results Summary MotoCAP Protection Rati Abrasion Burst Impact MotoCAP Breathability R	Rating ng ★ ★ 2/10 10/10 4/10 ating ✔	32.0 1.57 1524 29.8 0.115

This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided for an aftermarket back protector. There are zipped vents in the chest and back to allow controlled airflow movement through the garment. The thermal comfort rating is based on tests of the breathability of the garment when all vents are closed. The thermal comfort of this product may be better when the vents can be opened.

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	2/10
Abrasion score	1.57

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	80%	4.39	3.53	5.22	4.47			4.40 A
Material B	20%	0.81	0.47	0.41	0.58	0.40	0.40	0.51 F
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.81	0.47	0.41	0.58	0.40	0.40	0.51 F
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.81	0.47	0.41	0.58	0.40	0.40	0.51 N

Details of materials used in jacket

Material A	Heavy woven fabric shell, foam layer, water-resistance layer and mesh inner liner
Material B	Woven fabric shell, water-resistance 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	10/10			
Burst score	1524			

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.

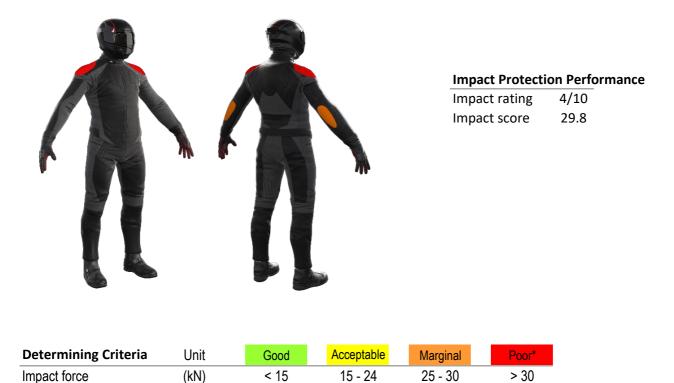
Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Zones 1 & 2	1974	1066	1612	1962	1956	1221	1632	G
Zones 3 & 4	698	1054	1669	666	1065	1400	1092	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 maximium force for each impact zone. Areas shaded black are not considered for impact protection ratings.



* 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)	25.4 M	26.8 M
Maximum force (kN)	29.6 M	32.1 P
Coverage of Zone 1 area	130%	110%
Coverage of Zone after displacement	80%	90%

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	24.6	22.6	29.6	21.1	28.0	30.1
Impact Protector 2	22.5	25.8	28.4	23.9	24.9	32.0
Impact Protector 3	22.6	24.3	28.5	25.0	24.3	32.1



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 I	iners	With water-resistant liner			
Breathability rating	7	Breat	thability rating	N/A	
Breathability score	0.115	Breathability score		N/A	
Moisture Vapour Resis	stance - R _{et} (kPa.m ² /W)	1	2	Average	
Without removable liner	S	122.8	126.4	124.6	
With water-resistant line	r	N/A	N/A	N/A	
Thermal Resistance - I	R _{ct} (K.m²/W)	1	2	Average	
Without removable liner	S	0.225	0.254	0.239	
With water-resistant line	r	N/A	N/A	N/A	

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 absorbe	ed by garment	Water absorbed by underwear		
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)	
Jacket 1	584	37%	142	49%	
Jacket 2	649	41%	7	3%	
Average	411	39%	50	26%	

Location of wetting

Visible wetting to the cotton underwear was present as major wetting on the chest of one jacket and as minor wetting on the neck and sleeve cuffs of the other jacket tested.

Assessment Details.	
Brand	Neo
Model	Xtreme
Туре	Jacket - Textile
Date purchased	9 March 2020
Tested by	AMCAF, Deakin University
Garment test reference	J19T40
Rating first published	August 2020
Rating updated	11 August 2020