



This MotoCAP safety rating applies to:

Brand Ixon Model Gyre

Type Textile Jacket
Date purchased 14 February 2024

Sizes tested L and XL
Test garment gender Male

Style All Purpose RRP \$499.95

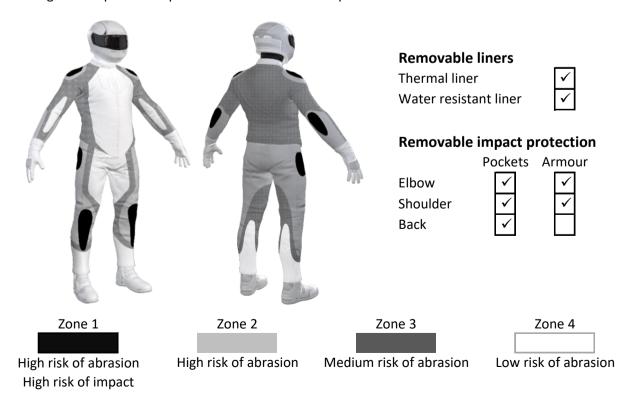
Test Results Summary	Rating	Score
MotoCAP Protection Rating	**	32.4
Abrasion	2/10	1.36
Burst	10/10	1307
Impact	6/10	41.8
MotoCAP Breathability Rating	*	0.284
Moisture Vapour Resistance	-	62.9
Thermal Resistance	-	0.297
Water resistance	1/10	46.6

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This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided for an aftermarket back protector. Mesh panels are located in the arms, chest and back to allow airflow movement through the garment. This garment has a removable 2 in 1 thermal/water-resistant liner. The breathability rating above was achieved with the 2 in 1 thermal/water-resistant liner removed. When tested with the 2 in 1 thermal/water-resistant liner installed, the breathability rating reduced to 0.5 stars.

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	1.36

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	20%	10.00	10.00	10.00	10.00	10.00	10.00	10.00	G
Material B	80%	1.71	1.85	1.71	2.86	1.60	1.35	1.85	М
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material C	80%	0.56	0.54	0.41	0.57	0.65	0.45	0.53	Р
Material D	20%	0.98	1.27	0.59	0.62			0.86	M
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material C	65%	0.56	0.54	0.41	0.57	0.65	0.45	0.53	M
Material D	35%	0.98	1.27	0.59	0.62			0.86	M

Details of materials used in jacket

Material A	Hardshell armour over foam layer and fabric shell and mesh inner liner
Material B	Fabric shell, fabric layer and mesh inner liner
Material C	Fabric shell and mesh inner liner
Material D	Double layer mesh fabric shell 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	1307

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	1551	1390	1366	1128	1440	1260	1356	G
Zones 3 & 4	1359	818	610	1300	1317	1277	1113	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 maximum force for each impact zone. Areas shaded black are not considered for impact protection ratings.



Impact Protection Performance

Impact rating	6/10
Impact score	41.8

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)	14.2	G	14.2 G
Maximum force (kN)	23.2	A	23.2 A
Coverage of Zone 1 area	90%		105%
Coverage of Zone after displacement	80%		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	9.2	12.1	21.7	9.2	12.1	21.7
Impact Protector 2	8.5	11.8	19.3	8.5	11.8	19.3
Impact Protector 3	9.0	13.2	23.2	9.0	13.2	23.2



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	n water-resist	ant liner
Breathability rating	*	Brea	thability rating	7
Breathability score	0.284	Brea	thability score	0.142
Moisture Vapour Resi	stance - R _{et} (kPa.m²/W)	1	2	Average
Without removable line	rs	63.3	62.5	62.9
With water-resistant line	er	163.1	181.0	172.1
Thermal Resistance -	R _{ct} (K.m ² /W)	1	2	Average
Without removable line	rs	0.299	0.296	0.297
With water-resistant line	er	0.410	0.407	0.408

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 absorbed by garment		Water absorbed by underwear		
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)	
Jacket 1	628	43%	140	50%	
Jacket 2	669	45%	119	43%	
Average	648	44%	129	47%	

Location of wetting

There was major wetting to the cotton underwear present at the cuffs of the sleeves and neck for both jackets tested, and on the chest for one of the jackets.

Assessment Details	5.
Brand	Ixon
Model	Gyre
Туре	Textile Jacket
Date purchased	14 February 2024
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	J24T26
Rating first published	March 2024
Rating updated	21 October 2024