



This MotoCAP safety rating applies to:

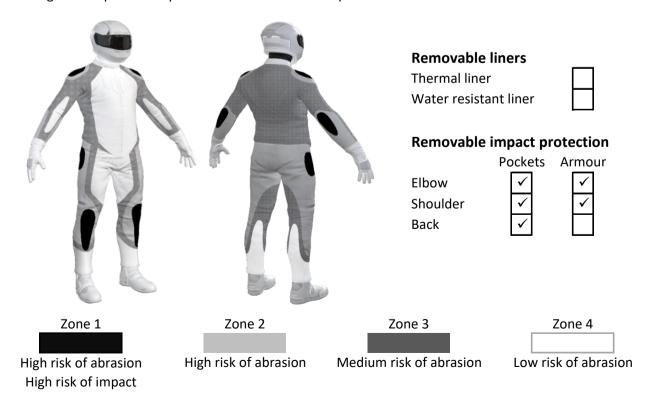
Triumph **Brand** Model Triple Roadster Type **Textile Jacket** Date purchased 13 March 2024 Sizes tested XL and 2XL Male Test garment gender Style Adventure RRP \$404.66

Test Results Summary	Rating	Score
MotoCAP Protection Rating	**	30.7
Abrasion	1/10	0.60
Burst	10/10	1171
Impact	7/10	53.2
MotoCAP Breathability Rating	*	0.223
Moisture Vapour Resistance	-	85.9
Thermal Resistance	-	0.320
Water resistance	1/10	57.9

This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided for an aftermarket back protector. 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	0.60

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)

Aprasion time	ior each test (sec	onus)						
Zone 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.54	0.56	0.60	0.70	0.61	0.62	0.60 P
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.54	0.56	0.60	0.70	0.61	0.62	0.60 P
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.54	0.56	0.60	0.70	0.61	0.62	0.60 M

Details of materials used in jacket

Material A Woven fabric shell, water-resistant 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 Strengtl	h Performance
Durct rating	10/10

Burst rating 10/10 Burst score 1171

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	975	1671	1676	1318	855	1349	1307	G
Zones 3 & 4	766	472	496	521	564	931	625	М



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	7/10
Impact score	53.2

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)	16.5	A	15.6 A
Maximum force (kN)	18.2	Α	17.0 A
Coverage of Zone 1 area	110%		105%
Coverage of Zone after displacement	90%		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					
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	15.6	16.4	17.9	14.7	15.0	16.6
Impact Protector 2	15.4	16.7	18.2	14.4	15.6	17.0
Impact Protector 3	15.0	16.6	16.3	15.5	16.3	15.4



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-resista	int liner
Breathability rating	*	Breat	hability rating	N/A
Breathability score	0.223	Breat	hability score	N/A
Moisture Vapour Resistance	e - R _{et} (kPa.m²/W)	1	2	Average
Without removable liners		82.6	89.2	85.9
With water-resistant liner		N/A	N/A	N/A
Thermal Resistance - R _{ct} (K	.m²/W)	1	2	Average
Without removable liners		0.304	0.336	0.320
With water-resistant liner		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 absorbed by garment		Water absorbed by underwear	
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)
Jacket 1	311	25%	144	48%
Jacket 2	196	17%	191	67%
Average	253	21%	167	58%

Location of wetting

There was major wetting to the cotton underwear present at the neck and chest for both jackets tested.

Assessment Details.

Brand Triumph
Model Triple Roadster
Type Textile Jacket
Date purchased 13 March 2024

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

Garment test reference J24T29
Rating first published June 2024
Rating updated 4 November 2024