



This MotoCAP safety rating applies to:

Brand Komine

Model JK-603 Protect Winter

Type Jacket - Textile
Date purchased 30 January 2023

Sizes tested 2XL and 4XL

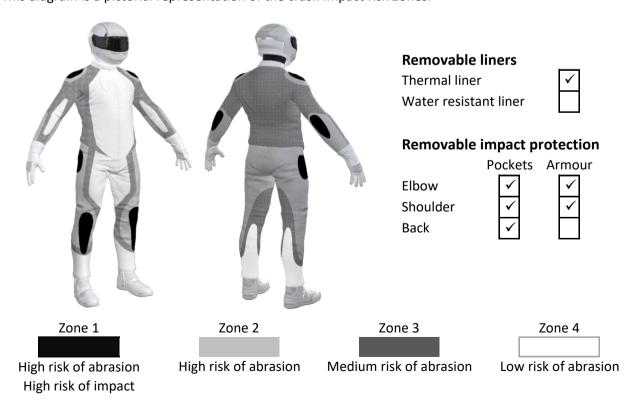
Test garment gender Male
Style Tourer
RRP \$249.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	+	11.8
Abrasion	1/10	0.34
Burst	10/10	1007
Impact	1/10	0.0
MotoCAP Breathability Rating	+	0.038
Moisture Vapour Resistance	-	431.4
Thermal Resistance	-	0.275
Water resistance	1/10	59.6

This garment is fitted with impact protectors for the elbows and shoulders. Pockets are provided for aftermarket back and chest protectors. 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, front arms and sides of lower back 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	1/10
Abrasion score	0.34

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	100%	0.35	0.31	0.24	0.42	0.36	0.39	0.34
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.35	0.31	0.24	0.42	0.36	0.39	0.34
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.35	0.31	0.24	0.42	0.36	0.39	0.34
Material A	100%	0.35	0.31	0.24	0.42	0.36	0	.39

Details of materials used in jacket

Material A Woven fabric 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
Burst score	1007

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	1345	682	596	1403	1021	1084	1022	G
Zones 3 & 4	780	989	890	828	1249	953	948	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

motocap.com.au

Impact rating	1/10
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

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)	30.5 P	42.5 P
Maximum force (kN)	47.3 P	49.6 P
Coverage of Zone 1 area	120%	100%
Coverage of Zone after displacement	100%	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)

Page 4 of 5

Impact protector type	Elbow	<i>I</i> Shoulder				
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	20.7	36.1	29.7	43.4	35.5	49.6
Impact Protector 2	33.3	30.6	20.2	44.3	37.2	46.0
Impact Protector 3	28.7	27.8	47.3	34.7	45.0	46.8



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	n water-resista	ant liner
Breathability rating		Breathability rating		
Breathability score	0.038	Breathability score		N/A
Moisture Vapour Resis	stance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liner	S	413.6	449.2	431.4
With water-resistant line	er	N/A	N/A	N/A
Thermal Resistance - I	R _{ct} (K.m²/W)	1	2	Average
Without removable liner	S	0.253	0.297	0.275
With water-resistant line	er	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	486	44%	216	75%
Jacket 2	406	37%	131	44%
Average	446	41%	174	60%

Location of wetting

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

Assessment Details.

Brand Komine

Model JK-603 Protect Winter
Type Jacket - Textile
Date purchased 30 January 2023

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

Garment test reference J23T01
Rating first published March 2023
Rating updated 20 March 2023