



This MotoCAP safety rating applies to:

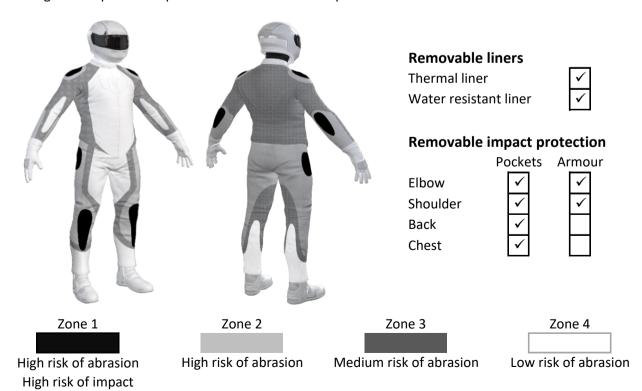
Brand Dainese Model Ladakh 3L Jacket - Textile Type Date purchased 19 June 2024 Sizes tested 56 and 58 Male Test garment gender Style Adventure RRP \$699.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	***	46.8
Abrasion	5/10	4.07
Burst	8/10	833
Impact	8/10	60.5
MotoCAP Breathability Rating	+	0.107
Moisture Vapour Resistance	-	158.9
Thermal Resistance	-	0.284
Water resistance	8/10	3.6

This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided for an aftermarket back and chest protector. There are zipped vents in the upper arms and sides of back as well as velcro to the upper chest 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 are opened. The breathability rating above was achieved with the thermal and water-resistant liners removed. When tested with the water-resistant liner installed, the breathability rating remained at half a star.

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	5/10
Abrasion score	4.07

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 to	or each test (sec	ionas)						
Zone 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	5.56	4.43	4.39	5.90	10.00	7.03	6.22 G
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	1.00	0.72	0.76	0.90	0.78	0.95	0.85 M
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	1.00	0.72	0.76	0.90	0.78	0.95	0.85 M

Details of materials used in jacket

Material A	Woven fabric shell, foam layer and mesh inner liner
Material B	Woven 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	8/10				
Burst score	833				

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	1013	541	559	523	1654	947	873	Α
Zones 3 & 4	346	623	599	1036	947	491	674	M



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 8/10 Impact score 60.5

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)	12.6	G	13.1 G
Maximum force (kN)	14.6	G	15.7 A
Coverage of Zone 1 area	120%		100%
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	Shoulder				
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	12.1	12.3	14.6	12.0	11.3	15.7
Impact Protector 2	12.9	12.7	13.8	13.6	14.0	11.1
Impact Protector 3	11.7	12.4	10.9	12.2	15.1	13.4



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	With water-resistant liner			
Breathability rating	 	Brea	thability rating	+		
Breathability score	0.107	Breathability score		0.110		
Moisture Vapour Resi	stance - R _{et} (kPa.m²/W)	1	2	Average		
Without removable line	rs	156.1	161.6	158.9		
With water-resistant line	er	189.2	194.4	191.8		
Thermal Resistance -	R _{ct} (K.m ² /W)	1	2	Average		
Without removable line	rs	0.283	0.286	0.284		
With water-resistant line	er	0.347	0.359	0.353		

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 (%)	Water Resistance	
Jacket 1	528	27%	11	4%	Performance	
Jacket 2	546	28%	9	3%	Water rating	8/10
Average	537	28%	10	4%	Water Score	3.64

Location of wetting

There was minor wetting to the cotton underwear present at the neck for both jackets tested.

Assessment Details.

Brand Dainese
Model Ladakh 3L
Type Jacket - Textile
Date purchased 19 June 2024

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

Garment test reference J24T40

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