



This MotoCAP safety rating applies to:

Brand Dainese

Model Racing 3 Ladies
Type Jacket - Leather
Date purchased 24 March 2020

Sizes tested 48
Test garment gender Female
Style Sports
RRP \$799.95

Test Results Summary	Rating	Score
MotoCAP Protection Rating	**	37.9
Abrasion	6/10	4.25
Burst	10/10	1293
Impact	2/10	12.3
MotoCAP Breathability Rating	+	0.076
Moisture Vapour Resistance	-	188.1
Thermal Resistance	-	0.240
Water resistance	N/A	N/A

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 sides 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.

		Removable I Thermal liner Water-resista Removable i Elbow Shoulder Back	
Zone 1	Zone 2	Zone 3	Zone 4
High risk of abrasion	High risk of abrasion	Medium risk of abrasion	Low risk of abrasion
High risk of impact			



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	6/10
Abrasion score	4.25

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)

ADIASION UNIE	ioi eacii test (set	,ulius)							
Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	4.52	4.61	4.03	3.66	4.61	5.55	4.50	Α
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	80%	4.52	4.61	4.03	3.66	4.61	5.55	4.50	G
Material B	20%	1.45	1.24	1.36	1.35	1.47		1.38	М
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	80%	4.52	4.61	4.03	3.66	4.61	5.55	4.50	G
Material B	20%	1.45	1.24	1.36	1.35	1.47		1.38	Α

Details of materials used in jacket

Material A	Leather shell with mesh inner liner
Material B	Stretch 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	1293

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.

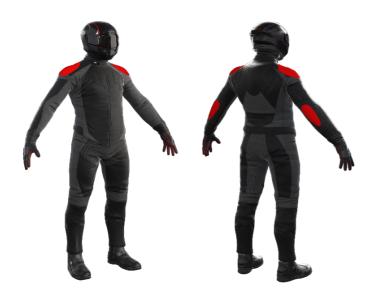
Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Zones 1 & 2	1178	729	1025	1779	1820	1172	1284	G
Zones 3 & 4	1210	1299	964	1640	1705	1173	1332	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.



Impact Protection Performance
Impact rating 2/10
Impact score 12.3

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

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)	31.4 P	29.4 M
Maximum force (kN)	44.3 P	39.4 P
Coverage of Zone 1 area	120%	130%
Coverage of Zone after displacement	90%	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			protector type Elbow Shoulder			Shoulder				
Strike location	Centre	Mid	Edge	Centre	Mid	Edge					
Impact Protector 1	13.5	44.3	31.2	20.0	36.6	33.3					
Impact Protector 2	36.4	29.2	37.3	21.6	28.9	39.4					
Impact Protector 3	18.4	37.2	35.3	21.2	24.3	39.2					



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 water-resistant liner		
Breathability rating	,	Breathability rating		N/A
Breathability score 0.0	076	Breathability score N/A		
Moisture Vapour Resistance - R _{et} (kPa.m²/W)		1	2	Average
Without removable liners		185.3	191.0	188.1
With water-resistant liner		N/A	N/A	N/A
Thermal Resistance - R _{ct} (K.m²/W)		1	2	Average
Without removable liners		0.240	0.239	0.240
With water-resistant liner		N/A	N/A	N/A

Water spray and rain resistance

This jacket has not been advertised as water-resistant so has not been tested for water spray and rain resistance.

Assessment Details.

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Model Racing 3 Ladies
Type Jacket - Leather
Date purchased 24 March 2020

Tested by AMCAF, Deakin University

Garment test reference J19L41
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