



This MotoCAP safety rating applies to:

Brand Dainese

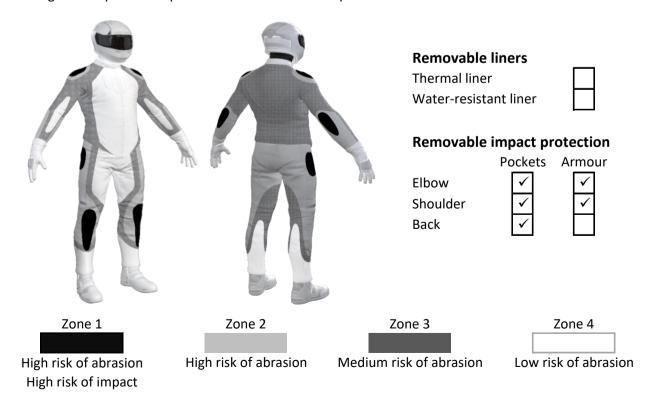
Model Racing 4 Perforated
Type Leather jacket
Date purchased 8 May 2024
Sizes tested 44 and 48
Test garment gender Female
Style Sports
RRP \$999.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	***	46.9
Abrasion	7/10	5.48
Burst	10/10	1400
Impact	3/10	18.3
MotoCAP Breathability Rating	*	0.255
Moisture Vapour Resistance	-	53.2
Thermal Resistance	-	0.226
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. Replacing the shoulder armour with higher performing impact protectors would improve the protection levels of this garment. Perforated leather is located in the arms and chest 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	7/10
Abrasion score	5.48

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)

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Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	40%	10.00	10.00	10.00	10.00	10.00	10.00	10.00 G
Material B	60%	3.76	2.62	4.06	5.78	3.71	4.40	4.06 A
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	70%	3.76	2.62	4.06	5.78	3.71	4.40	4.06 G
Material C	30%	2.85	3.16	3.61	2.94	6.87	4.83	4.04 G
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material C	100%	2.85	3.16	3.61	2.94	6.87	4.83	4.04 G

Details of materials used in jacket

Material A	Hard-shell armour over leather shell
Material B	Leather shell with mesh inner liner
Material C	Perforated leather 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			

1400

Burst score

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	1653	1214	1179	1482	1681	1278	1414	G
Zones 3 & 4	1999	1323	1165	1200	1328	1038	1342	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 3/10

Impact score

18.3

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)	21.0 A	27.5 M
Maximum force (kN)	30.6 P	34.6 P
Coverage of Zone 1 area	80%	80%
Coverage of Zone after displacement	70%	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	13.0	21.8	24.2	23.4	34.6	32.5
Impact Protector 2	18.0	19.4	30.6	22.0	27.0	33.6
Impact Protector 3	17.5	18.8	25.7	18.7	26.0	30.2



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 lin	With	water-resista	ant liner	
Breathability rating	*	Breat	thability rating	N/A
Breathability score	0.255	Breat	thability score	N/A
Moisture Vapour Resista	ance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liners		53.1	53.3	53.2
With water-resistant liner		N/A	N/A	N/A
Thermal Resistance - R _c	t (K.m²/W)	1	2	Average
Without removable liners		0.226	0.226	0.226
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.

Brand Dainese

Model Racing 4 Perforated
Type Leather jacket
Date purchased 8 May 2024

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

Garment test reference J24L18
Rating first published June 2024
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