


This MotoCAP safety rating applies to:

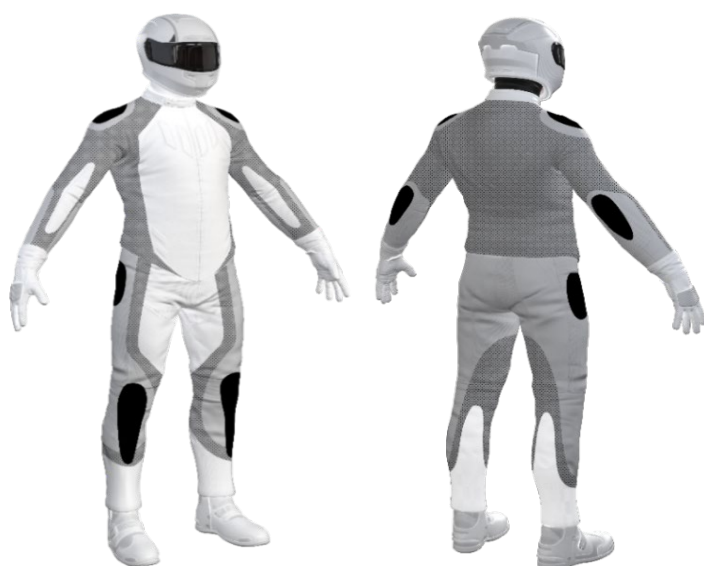
Brand	Dainese
Model	Archivio Pelle
Type	Jacket - Leather
Date purchased	6 July 2020
Sizes tested	52 and 56
Test garment gender	Male
Style	All Purpose
RRP	\$549.95


Test Results Summary	Rating	Score
MotoCAP Protection Rating	★	26.0
Abrasion	3/10	2.66
Burst	6/10	667
Impact	3/10	20.2
MotoCAP Breathability Rating	★★★	0.468
Moisture Vapour Resistance	-	30.2
Thermal Resistance	-	0.236
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 elbow armour with higher performing impact protectors would improve the protection levels of this garment. 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.



Zone 1

 High risk of abrasion
 High risk of impact

Zone 2

 High risk of abrasion

Zone 3

 Medium risk of abrasion

Zone 4

 Low risk of abrasion

Removable liners

Thermal liner ☐
 Water-resistant liner ☐

Removable impact protection

	Pockets	Armour
Elbow	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Shoulder	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Back	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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	3/10
Abrasion score	2.66

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)

Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	2.81	2.67	2.46	2.98	2.43	2.60	2.66	M
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	2.81	2.67	2.46	2.98	2.43	2.60	2.66	G
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	2.81	2.67	2.46	2.98	2.43	2.60	2.66	G

Details of materials used in jacket

Material A	Leather shell with fabric inner liner
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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	6/10
Burst score	667

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	614	628	611	919	541	544.1	643	M
Zones 3 & 4	405	678	1324	716	787	672.4	764	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	3/10
Impact score	20.2

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

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)	29.0	M	21.7	A
Maximum force (kN)	31.6	P	22.2	A
Coverage of Zone 1 area	80%		80%	
Coverage of Zone after displacement	80%		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		
	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	25.7	29.5	30.9	21.7	22.2	22.2
Impact Protector 2	26.3	29.9	31.2	21.5	21.4	22.1
Impact Protector 3	25.6	30.7	31.6	21.8	21.7	21.1

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

Breathability rating ★★
Breathability score 0.468

With water-resistant liner

Breathability rating N/A
Breathability score N/A

Moisture Vapour Resistance - R_{et} (kPa.m ² /W)	1	2	Average
Without removable liners	30.8	29.6	30.2
With water-resistant liner	N/A	N/A	N/A
Thermal Resistance - R_{ct} (K.m ² /W)	1	2	Average
Without removable liners	0.235	0.237	0.236
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	Archivio Pelle
Type	Jacket - Leather
Date purchased	6 July 2020
Tested by	AMCAF, Deakin University
Garment test reference	J19L47
Rating first published	December 2020
Rating updated	3 December 2020