

MOTOCAP

Brand	Dair	nese	
Model	Avro	o 4	
Туре	Jack	et - Leather	
Date purchased	4 De	ecember 202	22
Sizes tested	56 a	and 60	
Test garment gender	Mal	e	
Style	Spo	rts	
	\$1.0	099.00	
RRP	Ψ1,0	55100	
RRP Test Results Summary	. ,	Rating	Score
			Score 54.4
Test Results Summary		Rating	
Test Results Summary MotoCAP Protection Rat		Rating ★★★★	54.4
Test Results Summary MotoCAP Protection Rat Abrasion		Rating ★★★★ 8/10	54.4 5.87
Test Results Summary MotoCAP Protection Rat Abrasion Burst	ing	Rating ★★★★ 8/10 10/10	54.4 5.87 1370 37.9
Test Results Summary MotoCAP Protection Rat Abrasion Burst Impact	ing	Rating ★★★★ 8/10 10/10 5/10	5.87 1370

N/A

N/A

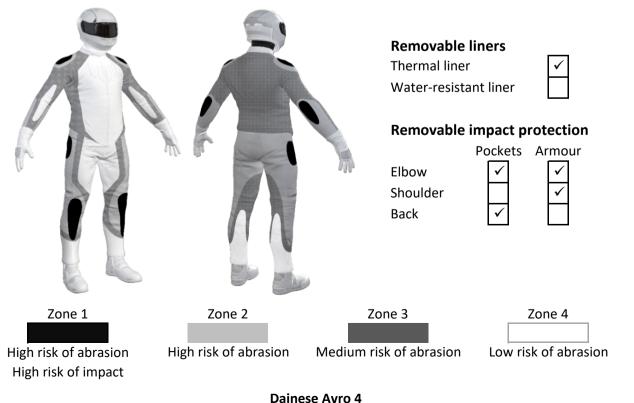
This MotoCAP safety rating applies to:

This garment is fitted with impact protectors for the elbows and shoulders. Shoulder impact protectors are held in place with velcro fastening. A pocket is provided for an aftermarket back protector. 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 sides 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.

Water resistance

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
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Abrasion rating	8/10
Abrasion score	5.87

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.

Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	5.81	6.25	7.74	5.37	5.07	5.40	5.94
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	5.81	6.25	7.74	5.37	5.07	5.40	5.94
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	L Average
Material A	90%	5.81	6.25	7.74	5.37	5.07	5.40	5.94
Material B	10%	1.20	1.59	1.45	1.30			1.38

Details of materials used in jacket

Material A	Leather shell with mesh inner liner
Material B	Stretch knitted fabric 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 PerformanceBurst rating10/10Burst score1370

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.

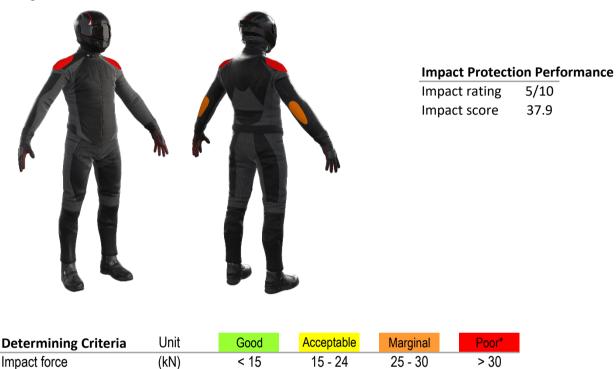
Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Zones 1 & 2	1364	1422	1440	1332	1404	1413	1396	G
Zones 3 & 4	1437	1554	1504	1234	1392	469	1265	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.



* 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)	20.4	A	23.4 A		
Maximum force (kN)	26.5	Μ	31.5 P		
Coverage of Zone 1 area	140%		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 i	impact strike (kN)
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Impact protector type	Elbow			Shoulder			
Strike location	Centre	Mid	Edge	Centre	Mid	Edge	
Impact Protector 1	20.3	24.4	26.5	15.9	25.5	31.5	
Impact Protector 2	20.4	25.3	12.5	20.0	19.0	25.2	
Impact Protector 3	15.4	20.4	18.4	20.1	25.3	28.0	



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	With	With water-resistant liner		
Breathability rating	*	Breat	thability rating	N/A
Breathability score	0.136	Breat	thability score	N/A
Moisture Vapour Resis	stance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liner	S	131.4	123.1	127.3
With water-resistant line	er	N/A	N/A	N/A
Thermal Resistance -	R _{ct} (K.m²/W)	1	2	Average
Without removable liner	S	0.285	0.291	0.288
With water-resistant line	Pr	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	Avro 4
Туре	Jacket - Leather
Date purchased	4 December 2022
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	J21L19
Rating first published	February 2023
Rating updated	28 February 2023