



This MotoCAP safety rating applies to:

Brand Dainese

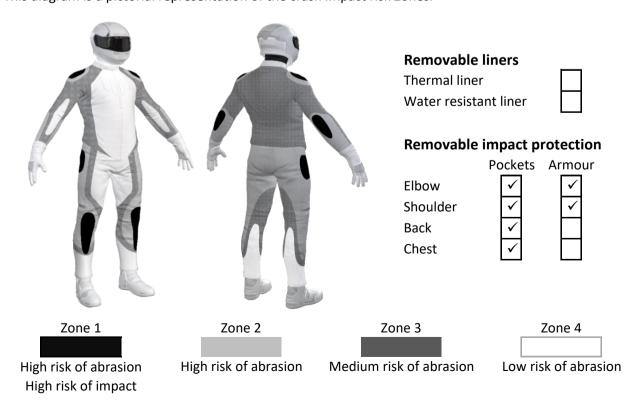
Model Herosphere Air Tex
Type Jacket - Textile
Date purchased 24 March 2025
Sizes tested 58 and 58
Test garment gender Male
Style All Purpose
RRP \$329.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	**	28.1
Abrasion	1/10	0.44
Burst	10/10	1247
Impact	6/10	44.8
MotoCAP Breathability Rating	***	0.439
Moisture Vapour Resistance	-	31.5
Thermal Resistance	-	0.230
Water resistance	N/A	N/A

This garment is fitted with impact protectors for the elbows and shoulders. Pockets are provided at chests and back for fitting aftermarket impact protectors. Mesh panels are located in the arms, chest and back 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	1/10
Abrasion score	0.44

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)

Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
95%	0.69	0.59	0.51	0.69	0.68	0.53	0.61
5%	0.26	0.19	0.34	0.20	0.18	0.31	0.25
Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
5%	0.69	0.59	0.51	0.69	0.68	0.53	0.61
95%	0.26	0.19	0.34	0.20	0.18	0.31	0.25
Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
100%	0.26	0.19	0.34	0.20	0.18	0.31	0.25
	95% 5% Coverage (%) 5% 95% Coverage (%)	95% 0.69 5% 0.26 Coverage (%) Sample 1 5% 0.69 95% 0.26 Coverage (%) Sample 1	95% 0.69 0.59 5% 0.26 0.19 Coverage (%) Sample 1 Sample 2 5% 0.69 0.59 95% 0.26 0.19 Coverage (%) Sample 1 Sample 2	95% 0.69 0.59 0.51 5% 0.26 0.19 0.34 Coverage (%) Sample 1 Sample 2 Sample 3 5% 0.69 0.59 0.51 95% 0.26 0.19 0.34 Coverage (%) Sample 1 Sample 2 Sample 3	95% 0.69 0.59 0.51 0.69 5% 0.26 0.19 0.34 0.20 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 5% 0.69 0.59 0.51 0.69 95% 0.26 0.19 0.34 0.20 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4	95% 0.69 0.59 0.51 0.69 0.68 5% 0.26 0.19 0.34 0.20 0.18 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 5% 0.69 0.59 0.51 0.69 0.68 95% 0.26 0.19 0.34 0.20 0.18 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5	95% 0.69 0.59 0.51 0.69 0.68 0.53 5% 0.26 0.19 0.34 0.20 0.18 0.31 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 Sample 6 5% 0.69 0.59 0.51 0.69 0.68 0.53 95% 0.26 0.19 0.34 0.20 0.18 0.31 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 Sample 6

Details of materials used in jacket

Material A	Woven fabric shell with mesh inner liner
Material B	Thick mesh 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	n Performance
Burst rating	10/10

Burst score

1247

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	743	977	1484	1821	1346	1990	1394	G
Zones 3 & 4	755	738	800	514	553	619	663	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	6/10
Impact score	44.8

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)	16.5	A	17.1 A
Maximum force (kN)	18.4	A	22.8 A
Coverage of Zone 1 area	110%	<u>—</u>	95%
Coverage of Zone after displacement	90%		95%

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	15.9	17.5	13.2	12.8	15.4	20.1
Impact Protector 2	18.4	15.6	17.1	16.0	16.5	19.9
Impact Protector 3	18.0	15.6	17.3	15.1	15.4	22.8



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	0.439	Breathability score		N/A
Moisture Vapour Resistance - R _{et} (kPa.m²/W)		1	2	Average
Without removable line	rs	31.1	31.8	31.5
With water-resistant liner		N/A	N/A	N/A
Thermal Resistance - R _{ct} (K.m²/W)		1	2	Average
Without removable line	rs	0.231	0.230	0.230
With water-resistant line	er	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 Herosphere Air Tex
Type Jacket - Textile
Date purchased 24 March 2025

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

Garment test reference J25T20
Rating first published July 20025
Rating updated 11 July 2025